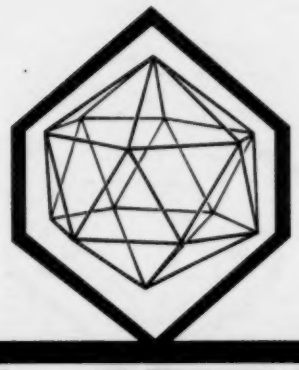
POLYHEDRON

List of Contents and Author Index
for Volume 13, 1994

Pergamon



POLYHEDRON

The International Journal for Inorganic and Organometallic Chemistry

Editor-in-Chief:
Sir Geoffrey Wilkinson, *Imperial College of Science and Technology*

Executive Editors:
Rest of the World
D C Bradley, *Queen Mary and Westfield College, University of London, Mile End Road, London E1 4NS, U.K. Fax:* (0181) 983 0625

U.S.A. and Canada
M H Chisholm, *Department of Chemistry, Indiana University, Bloomington, IN 47405, U.S.A. Fax:* (812) 855 7148

Editorial Board:
E W Abel, *University of Exeter*
R D Adams, *University of South Carolina*
E Carmona, *Universidad de Sevilla*
E C Constable, *University of Basle*
F A Cotton, *Texas A & M University*
D Coucouvanis, *University of Michigan*
A H Cowley, *University of Texas at Austin*
I G Dance, *University of New South Wales*
W J Evans, *University of California at Irvine*
R D Gillard, *University of Wales, Cardiff*
M L H Green, *University of Oxford*
N N Greenwood, *University of Leeds*
W A Herrmann, *Technische Universität München*
R H Holm, *Harvard University*
M B Hursthouse, *University of Wales, Cardiff*
S F Mason, *King's College, University of London*
F Mathey, *Polytechnique CNRS-SNPE*
W McFarlane, *University of Newcastle upon Tyne*
J A Osborn, *Université Louis Pasteur*
R J Puddephatt, *University of Western Ontario*
F G A Stone, *Baylor University*
P Stoppioni, *Università Degli Studi di Firenze*
A G Sykes, *University of Newcastle upon Tyne*
K Vrieze, *Universiteit van Amsterdam*
K Wade, *University of Durham*
A Yamamoto, *Waseda University*

Polyhedron Reports and Polyhedron Symposia-in-Print
Editors:
M H Chisholm, *Indiana University*
J D Woollins, *Loughborough University of Technology*

Production Editor:
J L Meikle, *Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. Fax:* (01865) 843969

Publishing, Subscription and Advertising Offices: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K.; or Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

Twenty-four issues per year—published semi-monthly

Annual Subscription Rates (1995)
Annual institutional subscription rates 1995: North, Central and South America, U.S. $2295.00, Rest of World, £1540.00. Associated Personal Subscription Rates are available on request for those whose institutions are library subscribers. Sterling prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.

Second class postage paid at Newark NJ and additional mailing offices. Postmaster send address corrections to Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

Copyright © 1994 Elsevier Science Ltd

Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appears in this journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the publishers, the editorial board and editors and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

CONTENTS

NUMBER 1

iii Contributors to this issue

iv Deposition of crystallographic data

D. C. Bradley, H. Chudzynska, M. B. Hursthouse, M. Motevalli and Ruowen Wu — 1 Volatile fluorinated tertiary alkoxides of some lanthanides, tris-hexafluoro-tertiary butoxides of lanthanum, praseodymium and europium

D. C. Bradley, H. Chudzynska, M. B. Hursthouse and M. Motevalli — 7 Volatile complexes of tris-hexafluoro-tertiary butoxides of lanthanum, praseodymium and europium with THF and diglyme

V. V. Skopenko, V. N. Kokozay, V. R. Polyakov and **A. V. Sienkiewicz** — 15 Direct synthesis and crystal structure of lead(II) iodide complex with ethanolamine

N. A. Davies, **K. B. Dillon, R. K. Harris,** G. F. Hewitson and L. Toms — 19 Tin-119 NMR spectroscopic studies of some six-coordinate complexes $R_2SnCl_2 \cdot 2L$ and $R_2SnCl_2 \cdot L'$ (R = Me or Ph; L = py; L′ = bipy or phen)

S. Ahmed, **J. Burgess,** B. Hurman and S. A. Parsons — 23 Pyronate and pyridinonate complexes of gadolinium

E. F. Lot, C. Airoldi and **A. P. Chagas** — 27 Enthalpy of metal–ligand interactions in some adducts $ZnX_2 \cdot 2L$ (X = Cl, Br; L = ligand with O or N as electron donor atom)

P. K. Baker and D. ap Kendrick — 39 The reactions of $[MoCl(GeCl_3)(CO)_3(NCMe)_2]$ with $OPPh_3$ and $SPPh_3$

D. Narinesingh, N. Ramcharitar, **L. A. Hall** and D. J. Williams — 45 Synthesis and crystal structure of a lead(II) aminosquarate

S. Mukhopadhyay and **R. Banerjee** — 53 Acid dissociation constants of [ethylenebis(biguanide)]-silver(III) cation in aqueous perchlorate media

Chen Dongli, Jia Handong, **Zhang Hongyun,** Che Deji, Yan Jina and Li Bei Jian — 57 Studies on acetylferrocenyl nicotinoyl and isonicotinoyl hydrazones and their coordination compounds with transition metals—II

Moo-Jin Jun and Jinwoo Cheon — 63 Cobalt(III) complex of ethylenediamine-*N*,*N*′-bis-α-(β-phenyl)-propionic acid

A. W. Herlinger, E. H. Funk, R. F. Chorak, J. W. Siebert and E. Roco — 69 Preparation of lithium and sodium complexes of 1,4,8,11-tetramethyl-1,4,8,11-tetraazacyclotetradecane, $Me_4[14]aneN_4$

P. K. Das and **B. K. Ghosh** — 77 Trans-dihalo(arylazo oxime)(arylazo oximato)ruthenate(II) anion and its reaction with tertiary phosphine bases: spectroscopic and electrochemical characterization of the stereoretentive products

S. Calogero, G. Gioia Lobbia, P. Cecchi, G. Valle and J. Friedl — 87 A Mössbauer study of some iron(II) and iron(III) poly(pyrazolyl)-borates. The X-ray crystal structures of iron(II)bis[hydridotris (3-methyl-1H-pyrazol-1-yl)borate] and iron(III)bis[hydridotris (1H-pyrazol-1-yl)borate] tetrafluoroborate

Xiao-Ying Li, Zong-Hui Jiang, Dai-Zheng Liao, Shi-Ping Yan Yan-Tuan Li and **Geng-Lin Wang** — 99 Synthesis and magnetism of μ-phthalato binuclear lanthanide(III) complexes (Ln = Gd, Tb, Ho, Er)

M. Breza 103 Quantum-chemical studies of triangulo cluster molecules of cobalt(0) with trimethylphosphine and carbonyl ligands and of their halogen derivatives

P. Starynowicz and **K. Bukietyńska** 109 Spectroscopy and structure of complexes with Ln—N bonds—I. Spectroscopy of crystals of neodymium complexes with nitrilotriacetic and *α*-picolinic acids

K. Bukietyńska and P. Starynowicz 113 Spectroscopy and structure of complexes with Ln—N bonds—II. Spectroscopy of crystals of holmium complexes with nitrilotriacetic and *α*-picolinic acids

C. Diaz and A. Arancibia 117 Preparation of new cationic complexes $[(\eta^5\text{-}C_5H_5)Fe(dppe)L]PF_6$ with sulphur and other donor ligands

Botao Zhuang, Peihua Yu, Liangren Huang, Lingjie He and Jiaxi Lu 125 A new molybdenum–tungsten–sulphur cluster complex family, $[\{(OC)_4M\}_xM'S_4]^{2-}$ (M = Mo or W, M′ = Mo or W; x = 1,2). Synthesis, structure and properties of a new trinuclear mixed-valence Mo—S cluster, $[Et_4N]_2[(OC)_4MoS_2MoS_2Mo(CO)_4]$

Z. Naal, **E. Tfouni** and A. V. Benedetti 133 Electrochemical behaviour of (*N*-R-4-cyanopyridinium)pentaammineruthenium(II) derivatives in acidic medium. Hydrolysis of coordinated nitriles

G. M. Escandar, **L. F. Sala** and M. G. Sierra 143 Complexes of cobalt(II) and nickel(II) with D-aldonic and D-alduronic acids in aqueous solution

Communications

M. B. Hursthouse, K. J. Izod, M. Motevalli and **P. Thornton** 151 Crystal and molecular structure of tetrakis-(triethylphosphine)-nickel(0); the first solid state structural determination of a homoleptic nickel(0) trialkylphosphine complex

G. Stochel 155 Intervalence transfer between hexacyanoferrate(II) and ammine complexes of chromium(III)

K. Kasuga, T. Moriguchi, K. Yamada, M. Hiroe, M. Handa and K. Sogabe 159 Fluorescence spectra and coloration of a europium(III) hexaaza macrocyclic complex in various solvents

Book review

P. Thornton 163 Chemistry of Iron. By J. Silver

Addendum

I. Bernal, J. Myrczek and J. Cai 165 The phenomenon of conglomerate crystallization—XXXII. The crystallization behaviour of [cis-$CO(EN)_2(NO_2)_2$]I (1) counter ion effects on crystallization pathway of racemate solutions—III. An addendum

Announcement

I Annual Polyhedron Publication Award

NUMBER 2

iii Contributors to this issue

iv Deposition of crystallographic data

J. W. Steed and **D. A. Tocher** 167 Nitrato complexes of ruthenium(IV): chelating, "semi-chelating" and monodentate coordination modes

T. Clark, **S. D. Robinson,** M. A. Mazid and M. B. Hursthouse 175 Complexes of the platinum metals—XLV. Synthesis and X-ray crystal structure of hexacarbonyl bis (*μ*-*N*,*N*′-diphenylacetamidinato)diruthenium (I/I)

S. R. Drake, K. D. Sanderson, **M. B. Hursthouse** and K. M. A. Malik	181	Titanium amide molecular precursors for titanium nitride
A. J. Blake, R. O. Gould, C. M. Grant, P. E. Y. Milne and **R. E. P. Winpenny**	187	Use of a hexanuclear copper complex as a ligand transfer agent: crystal structures of hexakis(6-methyl-2-pyridone)iron (III) nitrate and tetrakis(6-methyl-2-pyridone)bis(nitrato)-cobalt(II)
A. G. Comrie, A. McVitie and **R. D. Peacock**	193	Preparation and spectroscopic characterization of the elusive octamminodimolybdenum cation: $[Mo_2(NH_3)_8][TFMS]_4$
M. F. Self, A. T. McPhail, L. J. Jones III, **R. L. Wells** and J. C. Huffman	199	X-ray crystal structures of $[(Me_3SiCH_2)_2InCl]_2$ and $[(Me_3SiCH_2)InCl_2]_\infty$
J. M. Moreno, J. Ruiz, J. M. Dominguez-Vera, **E. Colacio,** D. Galisteo and R. Kivekäs	203	The preparation, spectroscopic study and crystal structures of two copper(II) complexes of closely related carboxyphenyl-azopyrimidine ligands, involving distorted square-pyramidal CuN_4O and CuN_3O_2 chromophores
L. R. Milgrom, R. J. Zuurbier, J. M. Gascoyne, D. Thompsett and B. C. Moore	209	Platinum porphyrins—V. Multinuclear NMR of some platinum (IV) porphyrins
T. Nyokong	215	Cyclic voltammetry and photooxidation of molybdenum(V) phthalocyanine
M. McCann, M. Devereux, C. Cardin and M. Convery	221	Copper(II) complexes of benzene-1,2-dioxyacetic acid ($bdoaH_2$): X-ray crystal structure of $[Cu_2(bdoa)(phen)_4]bdoa \cdot 13H_2O$ (phen = 1,10-phenanthroline)
K. A. Richie, D. K. Bowsher, J. Popinski and **G. M. Gray**	227	Synthesis, reactions and X-ray crystal structure of $Mo(CO)_5(Ph_2PCH_2C{=}CHC(O)OC(CH_3)_2O)$, a complex prepared via the unusual reaction of a coordinated chlorophosphine ligand with a carbanion
J. C. Fitzmaurice, A. Hector, A. T. Rowley and **I. P. Parkin**	235	Rapid, low energy synthesis of lanthanide nitrides
J. O. Dzięgielewski, J. G. Małecki and R. Grzybek	241	Radiation–catalytic reduction of bis-dinitrogen complex MO(O) with bi- and tridentate phosphines
K. S. Siddiqi, F. M. A. M. Aqra, S. A. Shah and S. A. A. Zaidi	247	The tridentate bonding mode of tetrahydroborate towards germanium and tin
L.-J. Baker and **M. J. Taylor**	251	Spectroscopic studies of gallium complexes in solution: multi-nuclear NMR and Raman spectra of mixed-ligand halidethio-cyanate and halide etherate complexes
J. M. Clemente, Chih Y. Wong, P. Bhattacharyya, A. M. Z. Slawin, D. J. Williams and **J. D. Woollins**	261	Synthesis and characterization of Pt(II)-catecholate and amido-phenolate complexes. X-ray crystal structures of $Pt\{O_2C_6H_2(NO_2)_2\}(PMe_2Ph)_2$ and $Pt(NHC_6H_4O)(PPh_3)_2$
O. J. Parker, G.T. Greiner, G. L. Breneman and R. D. Willett	267	Crystal and molecular structure and spectral properties of bromobis(1,10-phenanthroline)copper(II) perchlorate
R. Castro, J. A. Garcia-Vazquez, J. Romero, **A. Sousa,** W. Hiller and J. Strähle	273	Electrochemical synthesis of zinc(II) complexes of 4,6-dimethyl-pyrimidine-2-thione: the crystal structure of pyridine-bis(4,6-dimethylpyrimidine-2-thiolato)zinc(II)
C. Tsiamis and M. Themeli	281	Synthesis and spectroscopic investigation of some nickel(II) chelates containing β-ketoenolates and N,N′-diphenylethyl-enediamine
V. Anbalagan and **T. S. Srivastava**	291	Synthesis, spectral and electrochemical behaviour of α-diimine complexes of platinum(II) and palladium(II) with 3,4-dihydroxy-benzoic acid

Shaowu Du, Nianyong Zhu and **Xintao Wu** 301 Isolation and crystal structure of two novel oxo-persulphido amidrazone tungstate complexes, $WO(S_2)_2\{RC(=NH)NHNH\}$ ($R = CH_3$, CH_3CH_2)

N. S. Begum and H. Manohar 307 Synthesis and X-ray crystal structure of a Cu^{II}-theophylline complex: $[Cu(theo)_2(H_2O)_3] \cdot 2H_2O$

Jianggao Mao, Zhongsheng Jin, Jiazuan Ni and Liu Yu 313 Crystal structures of $Ln(NO_3)_3$ (Ln = Eu, Lu) complexes with a crown ether (16-crown-5)

Jianggao Mao and Zhongsheng Jin 319 Synthesis and structure characterization of lanthanum [2,2,2]-cryptates, $[LaCl[2,2,2](H_2O)]Cl_2 \cdot H_2O$ and $[La(CF_3SO_3)[2,2,2](DMF)](CF_3SO_3)_2$

Xian He Bu, **Yun Ti Chen,** M. Shionoya and E. Kimura 325 Synthesis and properties of a novel nickel(II) cyclam (cyclam = 1,4,8,11-tetraazacyclotetradecane) complex covalently attached to $Ru(bpy)_3^{2+}$ (bpy = 2,2′-bipyridyl)

Announcement

I Annual Polyhedron Publication Award

NUMBER 3

iii Contributors to this issue

iv Deposition of crystallographic data

H. Heaster and **P. E. Hoggard** 333 D- and DL-penicillamine complexes of chromium(III)

J. A. Smieja, K. M. Omberg, L. N. Busuego and G. L. Breneman 339 Synthesis and characterization of dichloro[5,10,15,20-tetrakis(*p*-tolyl)porphyrinato]osmium(IV), a potential precursor to organometallic porphyrinato complexes of osmium

P. Byers, M. G. B. Drew **M. J. Hudson,** N. S. Isaacs, A. Upadhaya and C. Madic 345 The structure of the adduct between 2-ethoxycyanopyridine and copper(II) chloride

P. Byers, M. G. B. Drew, **M. J. Hudson,** N. S. Isaacs and C. Madic 349 The structure and complex formed by tetraethylmalondiamide and lanthanum(III) nitrate

J. C. Jeffery, **J. A. McCleverty,** M. D. Mortimer and M. D. Ward 353 Synthesis and structure of a phenylalkylidyne complex of tris(3,5-dimethylpyrazolyl)boratodibromotungsten

J. Garcia-Jaca, M. Insausti, R. Cortes, T. Rojo, J. L. Pizarro and **M. I. Arriortua** 357 A new perspective of vanadyl–tartrate dimers. Synthesis, crystal structure, spectroscopic and magnetic properties of the chain compound: $\{[BaVO(C_4H_2O_6)(H_2O)_4]_2\}_n$

E. Bräu, R. Falke, A. Ellner, M. Beuter, U. Kolb and **M. Dräger** 365 On heterocyclic systems containing bismuth(III) 2. Eight-membered heterocycles $Cl/Br/I\text{-}M(CH_2CH_2CH_2)_2X$ with Lewis acidic group 15 atoms M = As, Sb, Bi and donor atoms X = NR, S: a contribution to the value of the electronegativity of bismuth(III)

Xigeng Zhou, Zhongzhi Wu, Huaizhu Ma, **Zheng Xu** and Xiaozeng You 375 Synthesis and structure of monocyclopentadienylyttrium(III) dichloride tris(tetrahydrofuran)

Zhongzhi Wu, **Zheng Xu,** Xiaozeng You, Xigeng Zhou, Xiaoying Huang and Jiutong Chen 379 Formation and crystal structures of $(C_5H_5)_3Sm(THF)$ and $(C_5H_5)_3Dy(THF)$

Chunying Duan, Xueqin Shen and Xiaozeng You 385 Synthesis and quenching study of the ferrocene-containing Schiff base complexes

Wen-Hua Sun, Han-Qing Wang, Shi-Yan Yang, Quan-Fu Zhou and Kai-Bei Yu	389	Syntheses and structures of $(\eta^5\text{-}C_5H_4CH_3)MoFeCo(CO)_8(\mu_3\text{-}S)$ and $(\eta^5\text{-}C_5H_4CH_3)_2Mo_2Fe(CO)_7(\mu_3\text{-}S)$: metal exchange with electrophilic addition–elimination via substitution
P. Sonawane, R. Chikate, A. Kumbhar, **S. Padhye** and **R. J. Doedens**	395	Inequivalent coordination of thiosemicarbazone ligands in cobalt(III) and chromium(III) complexes
Tun-Wen Cheng, Yao-Jung Chen, Fung-E Hong, **Jyh-Horung Chen,** Sue-Lein Wang and Lian-Pin Hwang	403	Synthesis and molecular structure of meso-tetra(4-pyridyl) porphyrinatothallium(III) cyanide: Tl(tpyp)(CN)
J. H. El-Nakat, **I. G. Dance, K. J. Fisher** and G. D. Willett	409	The reactions of Zn^+, Cd^+, Hg^+ and Pb^+ with benzene, substituted benzenes and thiols
C. W. Haigh and P. K. Baker	417	Use of Pólya's theorem to enumerate the isomers of seven-coordinate complexes with capped octahedral geometry
A. Castiñeiras, C. Vázquez, R. Carballo, C. Maichle-Mössmer and J. Strähle	435	Stereochemistry of copper(II) complexes of 1-(pyridine-2-yl)-3-methyl-3,6-diazaheptane (PDAHP). Crystal structures of $Cu(PDAHP)X_2$ (X = Cl, Br, NO_3)
Hai Xin Liu, Xiao Min Zhang and **Xin Wang**	441	Synthesis, characterization and crystal structure of *cis*-dioxomolybdenum (VI)-Schiff base complex $[MoO_2(O\text{-}C_6H_4CH{=}NN{=}COCH_2NC_5H_5)\ CH_3OH]Cl$
M. Jáky	445	Oxidations of α,β-unsaturated alcohols with soluble manganese(IV) phosphate
S. Bhattacharya	451	Synthesis, characterization and reactivity of a ruthenium–quinone complex
K. J. Kolodsick, P. W. Schrier and **R. A. Walton**	457	Mixed carbonyl-thiocarbonyl dirhenium(III) complexes of the type $[Re_2(\mu\text{-}S)(\mu\text{-}X)X_2(CS)(\mu\text{-dppm})_2(CO)]PF_6$ (X = Cl or Br) and their conversion to the analogous μ-sulphur dioxide compounds
I. Bernal, J. Cetrullo, **J. H. Worrell** and T. Li	463	The phenomenon of conglomerate crystallization—XXXVI. The crystal and molecular structure of racemic [*cis*-α-dinitro(1,8-diamino-3,6-dithiaoctane)cobalt(III)]Cl (I) and the absolute configuration of $(+)_{546}\text{-}\Lambda(\delta\lambda\delta)$[*cis*-α-dinitro(1,8-diamino-3,6-dithiaoctane)cobalt(III)]ClO_4 (II)
B. S. Prabhananda, **N. D. Yordanov** and N. Patev	469	EMR line-width analysis of $CHCl_3$ solution of bis(ethylacetoacetato)copper(II) complex
Yan-Tuan Li, Zong-Hui Jiang, Shu-Lin Ma, Xiao-Ying Li, **Dai-Zheng Liao,** Shi-Ping Yan and Geng-Lin Wang	475	Synthesis and magnetism of copper(II)–lanthanide(III) heterometal binuclear complexes with N,N′-bis(2-aminoethyl)-oxamidocopper(II)
E. Reguera, J. Fernández-Bertrán and J. Duque	479	On the interactions of ozone with manganous hexacyanoferrates
B. Moubaraki, K. S. Murray, P. J. Nichols, S. Thompson and **B. O. West**	485	The synthesis, reactivity and magnetic susceptibilities of Cr(IV)porphyrin imido complexes, CrN(R), and attempts to form heterobinuclear μ-imido compounds with CrN(R)V and CrN(R)Fe bridges
M. E. Bodini, P. E. Bravo and and V. Arancibia M.	497	Voltammetric and spectroscopic study of the iron(II) complexes with the semiquinone of 2-hydroxy-1,4-naphthoquinone (Lawsone) in aprotic medium
A. N. Startsev, O. V. Klimov, S. A. Shkuropat, M. A. Fedotov, S. P. Degtyarev and D. I. Kochubey	505	Synthesis, properties and structure of binuclear anionic "Mo(V) hydroxide", $[Mo_2O_4(OH)_4(H_2O)_2]^{2-}$

I. Abrahams, N. Choi, K. Henrick, H. Joyce, **R. W. Matthews,** M. McPartlin, F. Brady and S. L. Waters — 513 The crystal and molecular structures of the blood cell labelling agents tris(2-hydroxy-2,4,6-cycloheptatrien-1-onato-O,O′)-indium(III) and *trans*-{tris(4-*iso*-propyl-2-hydroxy-2,4,6-cycloheptatrien-1-onato-O,O′)indium(III)}

S. S. Massoud, L. Labib and and M. F. Iskander — 517 Nickel(II) chelates of unsaturated aroylhydrazones and their reactions with pyridines

Communication

P. K. Baker and D. J. Sherlock — 525 Seven-coordinate triphos {triphos = $Ph_2P(CH_2)_2PPh(CH_2)_2PPh_2$} complexes of molybdenum(II) and tungsten(II): $[WI_2(CO)_3(\eta^2$-triphos)], a novel monodentate phosphine ligand

Announcement

I Annual Polyhedron Publication Award

NUMBER 4

iii Contributors to this issue

iv Deposition of crystallographic data

K. K. Narang, J. P. Pandey and V. P. Singh — 529 Synthesis, characterization and physicochemical studies of some copper(II) tetrathiocyanato dithallate(I) complexes with hydrazides and hydrazones

F. T. Edelmann, A. Steiner, D. Stalke, J. W. Gilje, S. Jagner and M. Håkansson — 539 Lanthanide alkoxides—III. Four-coordinate anionic neodymium(III) alkoxides and amides

F. T. Edelmann, M. Noltemeyer, **I. Haiduc,** C. Silvestru and R. Cea-Olivares — 547 Bismuth(III) dimethyldithiophosphinate, $Bi(S_2PMe_2)_3$: another dimer formed through secondary bonding. The stereochemically active lone pair revisited

G. A. Pearse, P. R. Raithby and M. M. J. Maughan — 553 Synthesis and X-ray crystal structure of 2,2′,2″-iminotris-(acetamidoxime) copper(II) sulphate monohydrate, $[Cu\{N(CH_2CNH_2{:}NOH)_3\}(SO_4)] \cdot H_2O$

R. R. Mohanty, K. C. Rout, S. Jena and **K. C. Dash** — 559 Mononuclear dioxouranium(VI) and thorium(IV) complexes with potential tetradentate bridging chelators

Ki-Young Choi, Ki Sung Kim and Ju Chang Kim — 567 Dissociation kinetics of cerium(III) and gadolinium(III) complexes of macrocyclic DTPA bis(amide) ligands

F. Benetollo, **G. Bombieri** and L. M. Vallarino — 573 A lanthanum(III) complex of a six-nitrogen donor macrocyclic ligand with aromatic side-chains: synthesis, crystal structure and spectra

F. Menzel, V. Kaiser, W. Brockner and **M. Ystenes** — 579 Investigation of the conformation of 2,4-bis(methylthio)-2,4-dithioxo-1,3,2,4-dithiadiphosphetane, $(CH_3S)_2P_2S_4$, by crystal structure determination, vibrational analysis and quantum mechanical calculations

C. Gerard, H. Chehhal and R. P. Hugel — 591 Complexes of iron(III) with ligands of biological interest: dopamine and 8-hydroxyquinoline-5-sulphonic acid

A. Roodt, S. S. Basson and **J. G. Leipoldt** — 599 Studies on the substitution reactions of dioxotetracyanometalate systems with bidentate ligands: kinetics of the reaction between aquaoxotetracyanotungstate(IV) and 2-pyridinecarboxylate ions

Zhibang Duan, **M. J. Hampden-Smith,** E. N. Duesler and A. L. Rheingold — 609 The reactivity of (1,5-cyclooctadiene)Rh(β-diketonate) compounds towards triorganophosphine ligands

M. F. Self, A. T. McPhail, L. J. Jones III and **R. L. Wells** 625 Synthesis and molecular structures of $R(Me_3CCH_2)_2In \cdot E(SiMe_3)_3$ ($R = Me_3CCH_2$, E = P or As; R = Me, E = P)

A. Ford, E. Sinn and **S. Woodward** 635 Preparation of dimolybdenum cations with triply bridged cores $[Mo_2(\mu\text{-}F)_2(\mu\text{-}X)(CO)_4(PPh_3)_4]^+$ (X = F, Cl, Br, OH), $[Mo_2(\mu\text{-}Br)_n(\mu\text{-}OH)_{3-n}(CO)_4(PPh_3)_4]^+$ (n = 1, 2) and ditungsten cations $[W(\mu\text{-}F)_n(\mu\text{-}Br)_{3-n}(CO)_4(PPh_3)_4]^+$ crystal structure of $[Mo_2(\mu\text{-}Br)(\mu\text{-}F)_2(CO)_4(PPh_3)_4]F$

A. G. Coutsolelos and G. A. Spyroulias 647 Dysprosium metallation to substituted tetraaryl-porphyrin complexes; synthesis and spectroscopic characterization

E. Mieczyńska, A. M. Trzeciak, **J. J. Ziółkowski** and T. Lis 655 Preparation and structure of di-(μ-salicylato-O,O′)-bis(1,5-cyclooctadiene)dirhodium(I)

Zijian Guo, **G. Faraglia** and S. Sitran 659 Palladium and platinum dihalide complexes with L-methioninol

L. D. Rosenhein and J. C. Huffman 667 Structural changes upon oxidation of a linear, trinuclear iron–molybdenum complex

B. G. Gowenlock, K. G. Orrell, V. Šik, **G. Vasapollo,** M. V. Lakshmikantham and M. P. Cava 675 Nitrosoalkenes and their coordination compounds with palladium chloride

P. Chakraborty and **S. K. Chandra** 683 Synthesis, structure, EPR and electrochemical studies of a μ_2-phenoxo bridged manganese(II) dimer afforded by a binucleating macrocyclic ligand

A. A. Batista, J. Zukerman-Schpector, O. M. Porcu, S. L. Queiroz, M. P. Araujo, G. Oliva and D. H. F. Souza 689 Molecular structures, electrochemical and spectroscopical properties of dichlorodicarbonylbis(triphenylphosphine)ruthenium (II) and dichlorodicarbonylbis(triphenylarsine)ruthenium(II)

M. C. Chakravorti, S. Ganguly and M. Bhattacharjee 695 Electrosynthesis, characterization and studies of reactivity of some highly peroxygenated vanadium(V) complexes

M. R. A. Pillai, C. L. Barnes and **E. O. Schlemper** 701 Dinuclear complexes of rhenium(V) with amine–phenol ligands: syntheses, characterization and X-ray crystal structures

Announcement

I Annual Polyhedron Publication Award

NUMBER 5

iii Contributors to this issue

iv Deposition of crystallographic data

A. P. Purdy and C. F. George 709 Synthesis and structure of tri-tert-butoxyzincates

J. Granifo 713 Synthesis of mono- and binuclear triphenylphosphine complexes $[\{Mo(CO)_3(PPh_3)\}_n(dpp)]$ (n = 1,2; dpp = 2,3-bis(2-pyridyl)pyrazine) and the formation of heterobimetallic derivatives with Mo—dpp—M (M = Co, Ni) arrays

H. J. van der Westhuizen, S. S. Basson, J. G. Leipoldt and **W. Purcell** 717 A kinetic study of the reaction between $[OsN(H_2O)(CN)_4]^-$ and azide ions in aqueous solution

M. Breza	723	Quantum-chemical studies of triangulo cluster molecules of cobalt(0) and nickel(0) with trimethylphospine and carbonyl ligands
K. R. Dunbar and S. C. Haefner	727	Synthesis and properties of tris(2,4,6-trimethoxyphenyl)phosphine and tris(2,4,6-trimethoxyphenyl)phosphine oxide
R. A. Holwerda	737	Tetranuclear chromium(III) complexes with bridging oxo and dicarboxylato substituents
D. L. Barnes, N. W. Eilerts and **J. A. Heppert**	743	4,4′-Biphenolate complexes of titanium and zirconium
S. A. Brewer, A. K. Brisdon, J. H. Holloway and **E. G. Hope**	749	EXAFS studies on solutions of metal hexafluorides in anhydrous HF
P. D. Akrivos, S. K. Hadjikakou, **P. Karagiannidis,** M. Gdaniec and **Z. Kosturkiewicz**	753	On the molecular structure of gold(I) complexes with heterocyclic thiones. The structure of bis(1,3-thiazolidine-2-thione) gold(I) chloride hydrate
Zhu Shourong, Lin Huakuan, Xian Jingchun and Chen Yun-Ti	759	Synthesis of 12-(2′-hydroxyl)-benzyl-1,4,7,10-tetraazacyclotridecane-11,13-dione and properties of its copper(II) complex
K. R. Reddy and **M. V. Rajasekharan**	765	A mononuclear bis-chelate complex of manganese(III) with 1,10-phenanthroline. Crystal and molecular structure of $[Mn(phen)_2Cl_2]NO_3 \cdot 2.5CH_3COOH$
Chi-Ming Che, Zao-Ying Li, Kwok-Yin Wong, Chung-Kwong Poon, T. C. W. Mak and Shie-Ming Peng	771	A simple synthetic route to N,N′-dialkyl-2,11-diaza[3.3](2,6)-pyridinophanes. Crystal structures of N,N′-di-tert-butyl-2,11-diaza[3.3](2,6)pyridinophane and its copper(II) complex
R. Batheja, S. Katiyar, V. Singh and **A. K. Singh**	777	3-(4-Methoxyphenyltelluro)propane-1,2-diol—synthesis and reactions with mercury(II), palladium(II) and platinum(II) halides
Zhong Ning Chen, **Wen Xia Tang** and Kai Bei Yu	783	Synthesis, molecular structure and magnetic properties of dinuclear copper(II) complexes bridged by the *trans*-oxamidato group
M. Shakir and S. P. Varkey	791	Synthesis and structural characterization of cobalt(II), nickel(II) and copper(II) complexes of 18-membered mixed-donor macrocycles
Z. A. Siddiqi and V. J. Mathew	799	Synthesis of a novel 16-membered tetrapeptide macrocycle, dibenzo[c,k] [1,6,9,14]tetra-aza cyclohexadecane[2,5,10,13]tetra-one. Electrochemical evidence for the stability of +1 oxidation state of cobalt and copper
F. A. Cotton, Jian Lu and Tong Ren	807	Synthesis and crystal structure of amidato-bridged dirhenium (III,III) compounds
F. A. Cotton, L. M. Daniels, D. J. Maloney, J. H. Matonic and **C. A. Murillo**	815	Divalent metal chloride formamidine complexes, M^{II} = Fe, Co and Pt. Syntheses and structural characterization
Chan-Cheng Su and Chen-Bor Li	825	Bonding properties of Cu(II)—N chromophores: preparation, structure and spectroscopic properties of mixed ligand 2,2′:6′,2″-terpyridine copper(II) complexes. Molecular structures of $[Cu(terpyridine)(4\text{-methylimidazole})(H_2O)(BF_4)](BF_4)$ and $[Cu(terpyridine)(3\text{-methylpyridine})(BF_4)_2]$
M. McCann, K. Maddock, C. Cardin, M. Convery and V. Quillet	835	Synthesis and reactions of $[Et_3NH]_4[MO_8O_{26}]$: X-ray crystal structure of $[Et_3NH]_3[NaMo_8O_{26}]$

Shaowu Du, **Xintao Wu** and Jiaxi Lu — 841 — Synthesis and crystal structure of two novel cubane-like tungsten (molybdenum)–silver–selenium clusters: $\{MAg_3Se_3I\}(Se)(Ph_3P)_3$ (M = W, Mo)

Communications

N. Choi, I. Khan, **R. W. Matthews,** M. McPartlin and B. P. Murphy — 847 — Syntheses and crystal structures of piperazine-1,4-diylbis (methylene)bis(phosphonic acid)hydrochloride, $[H_5L]Cl$, and its complex with cadmium(II), $[Cd(OH)(H_3L)(H_2O)_3]_n \cdot nH_2O$

Wen-Hua Sun, Han-Qing Wang, Quan-Fu Zhou, Shi-Yan Yang and Kai-Bei Yu — 851 — Synthesis and X-ray crystal structure of $Fe_2Co[\mu_3\text{-}SFe(CO)_2(\eta^5\text{-}C_5H_4CH_3)](CO)_9$: the μ_4-S heterometallic cluster as an example of an intermediate in electrophilic addition–substituent elimination

F. Gaizer, P. Sipos and J. Lázár — 855 — The stability constants of silver–iodide complexes in DMF

Book Review

S. Cotton — 859 — Iron–Carbene Complexes (Scripts in Inorganic and Organometallic Chemistry; 1). Edited by Wolfgang Petz

Announcement

I — Annual Polyhedron Publication Award

NUMBER 6/7

iii — Contributors to this issue

iv — Deposition of crystallographic data

Ph. Lagrange, M. Schneider, K. Zare and **J. Lagrange** — 861 — Determination and comparison of stability constants of uranium(VI) and vanadium(V) glycine complexes

D. L. Reger and Yan Ding — 869 — Solid state structure of $[HB(pz)_3]_2Sn$

Zhong Ning Chen, **Wen Xia Tang,** Jian Chen, Pei Ju Zheng, Cheng Gang Chen and Kai Bai Yu — 873 — Synthesis, crystal structure and magnetic properties of dinuclear nickel(II) complexes bridged by oxamides

N. R. Champness, **W. Levason,** S. R. Preece and M. Webster — 881 — Synthesis and spectroscopic studies of ruthenium(II) selenoether complexes: structure of *trans*-$[Ru\{PhSe(CH_2)_2SePh\}_2Cl_2]$

Chi-Ming Che, Hon-Kay Yip, Wei-Chung Lo and Shie-Ming Peng — 887 — Luminescent metal clusters. Spectroscopic properties and X-ray structure of a trinuclear gold(I) complex containing bis(diphenylphosphino)methane and phenylacetylide

K. Nonoyama, W. Mori and M. Nonoyama — 891 — Copper(II) and nickel(II) complexes of binucleating N,N′-disubstituted imidazole-4,5-dicarboxamides

W. Radecka-Paryzek and E. Luks — 899 — The dioxouranium(VI) ion as a template for the synthesis of hexaaza tetradentate macrocyclic ligand

R. Selvaraju, **K. Panchanatheswaran** and K. Venkatasubramanian — 903 — Characterization of an unusual reaction product of tin(II) chloride with sodium N,N-diethyldithiocarbamate

G. M. Escandar, M. G. Sierra, J. M. S. Peregrin, G. Labadié, M. Santoro, A. Frutos and **L. F. Sala** — 909 — Interaction of zinc(II) ion with D-aldonic acids in the crystalline solid and aqueous solution

K. Mochida and M. Nanba — 915 — Addition of germyl anions to aliphatic ketones and α,β-unsaturated ketones

M. K. Kolel-Veetil, J. F. Curley, P. R. Yadav and **K. J. Ahmed** — 919 — The X-ray structure and substitution reactions of the amido bridged Ir^{II} dimer $Ir_2(I)_2[\mu\text{-}NH(p\text{-tolyl})]_2(CO)_4$

S. Daniele, **L. G. Hubert-Pfalzgraf,** J.-C. Daran and S. Halut	927	Synthesis and molecular structure of $[Sm_4Ti(\mu_5\text{-}O)(\mu_3\text{-}OR)_2(\mu\text{-}OR)_6(OR)_6]$ (R = Pr^i): a novel framework for heteronuclear alkoxides with a 1:4 stoichiometry
C. Fujii, M. Mitsumi, M. Kodera, K.-I. Motoda, M. Ohba, N. Matsumoto and **H. Okawa**	933	Structure and magnetic properties of new dinuclear copper(II) complexes bridged by chloranilate or bromanilate dianions
C. Pettinari, F. Marchetti, A. Cingolani, C. Marciante, R. Spagna and M. Colapietro	939	Synthesis and characterization of some tin(II) and tin(IV) derivatives of 4-acyl-5-pyrazolones. Crystal structure of bis(1-phenyl-3-methyl-4-acetyl-pyrazolon-5-ato)tin(II)
Zhao Wen Yu, Ruo Jie Tao, Xu Ya Zhou, Dou Man Jin and Dai Zheng Liao	951	Syntheses and magnetic properties of heterobinuclear complexes with N,N′-bis(3-carboxylsalicylidene)trimethylenediamine
R. K. Agarwal, K. Arora and P. Dutt	957	Some high coordination compounds of thorium(IV) and dioxouranium(VI) derived from hydrazones of isonicotinic acid hydrazide
V. Martínez, F. de M. Ramírez and **J. Padilla**	965	Synthesis, spectroscopic and magnetic behaviour of dysprosium bis(tetraphenylporphyrinate) and bis(dysprosium)tris(tetraphenylporphyrinate)
A. Srivastava, A. K. Shrimal and S. C. Srivastava	975	Aldimine derivatives of molybdenum carbonyl
G. Krishnan and **C. P. Prabhakaran**	983	Mass spectral studies on some dithiocarbamato complexes of manganese(III), iron(III), cobalt(III) and cadmium(II)
Dejian Zhou, Chunhui Huang, Kezhi Wang and Guangxian Xu	987	Synthesis, characterization, crystal structure and luminescent property studies on a novel heteronuclear lanthanide complex $\{H[EuLa_2(DPA)_5 \cdot 8H_2O] \cdot 8H_2O\}_n$ (H_2DPA = pyridine-2,6-dicarboxylic acid)
R. Subraminian, **B. A. Sastry,** G. Ponticelli and Z. Matovic	993	Spectroscopic studies on some mixed-ligand metallic complexes formed with two different tridentate ligands
C. K. Pal, S. Chattopadhyay, C. Sinha, D. Bandyopadhyay and **A. Chakravorty**	999	Facile regiospecific aromatic hydroxylation in palladium azopyridines and structural characterization of phenolato product
A. K. Tripathi, **P. Mathur** and J. S. Baijal	1005	Di-iron(III) complex of a hexadentate ligand with inequivalent iron coordination sites
Xue-Xiang Xu, **Xiao-Zeng You** and **XinWang**	1011	The crystal structure of tetra(piperidinium)octamolybdate(VI) tetrahydrate
S. da S. S. Borges, **A. L. Coelho,** I. S. Moreira and M. A. B. de Araújo	1015	Spectroscopic and substitution kinetic studies of pentacyanoferrate(II) complexes with sulphur heterocyclic ligands
Lisheng Mao, **Qi Shen** and Sunchun Jin	1023	Synthesis and crystal structure of $[Li(THF)_4][(^tBuCp)Yb(NPh_2)_3]$
A. Vogt, A. Kufelnicki and B. Leśniewska	1027	The distinctive properties of dioxygen complexes formed in the cobalt(II)-asparagine-OH^- systems (in relation to other amino acids and mixed complexes with N-base)

Huanwang Jing, **Xin Wang,** Zijie Hou, Shuying Chen and Du Li	1035	Synthesis, characterization and structure of complexes of 4-[2-(4-dimethylamino phenyl)-vinyl]-1-methylpyridinium penta- and hexanitrato lanthanides
Suning Wang, Jian-Chuan Zheng, J. R. Hall and L. K. Thompson	1039	Crystal structure and magnetic properties of a cubane-type copper compound $[Cu^{II}$(2,2,6,6-tetramethyl-3,5-heptanedionato)(ethoxo)$]_4$
J. A. Meese-Marktscheffel, R. E. Cramer and **J. W. Gilje**	1045	Magnesium–aluminium alkoxides: the synthesis of $Mg[Al(OR)_4]_2$ (R = Bu^{sec} and Ph). Structure of $(thf)_2Mg[(\mu\text{-}OPh)_2Al(OPh)_2]_2$, and dynamic NMR of $Mg[Al(OBu^{sec})_4]_2$
H. G. Visser, **J. G. Leipoldt, W. Purcell** and D. Mostert	1051	Substitution and protonation reactions of nitrilotriacetatochromium(III) ions
Jingfu Liu, Weiqing Wang, Guang Wang, Benliang Zhao and Shaoren Sun	1057	Synthesis and characterization of bis(undecatungstoarsenate) lanthanates of potassium
S. Choudhury, A. K. Deb and **S. Goswami**	1063	Synthesis, characterization and high-resolution proton resonance spectra of $[AgL_2]ClO_4$ (L = 2-arylpyridinecarboxaldimine) and their reactivities
P. Starynowicz, **K. Bukietyńska,** W. Ryba-Romanowski, G. Dominiak-Dzik and St. Gołąb	1069	Spectroscopy and structure of complexes with Ln—N bonds (III). Structure and spectroscopy of ethylenediammonium octaazi dodineodymate
P. Look-Herber, P. G. Jones and **R. Schmutzler**	1077	Complexes of rhodium(I), platinum(II) and iridium(I) involving a mixed-valence diphosphorus ligand
		Communications
K. Yokoi, I. Watanabe and S. Ikeda	1083	Molybdenum(V) tetramer in sulphuric acid solution
Xiao-Ming Chen and **T. C. W. Mak**	1087	A novel heterotetranuclear complex bridged by a carboxylate-like ligand: $[\{CaCu(Et_3NCH_2CO_2)_4(NO_3)_2(H_2O)\}_2](NO_3)_4 \cdot 5H_2O$
H. Akashi, Jie Chen, T. Sakuraba and **A. Yagasaki**	1091	Synthesis of $[Cp^*TiMo_5O_{18}]^{3-}$. Its unexpectedly high basicity and unexpected protonation site
M. L. B. F. Hereygers, **H. O. Desseyn,** J. C. Plakatouras, **S. P. Perlepes,** K. A. F. Verhulst and A. T. H. Lenstra	1095	Preparation, properties and structural characterization of 2-oxathioamidate complexes
M. R. Sundberg and M. Klinga	1099	The first *trans*-bis copper(II) complex with 1,3-diaminopropane, axial water and non-coordinated benzoate
M. Valderrama, R. Contreras, M. Bascuñan and D. Boys	1101	New coordination mode of bis(diphenylphosphine) methanide diselenide. Synthesis and X-ray crystal structure of $[(\eta^5\text{–}C_5Me_5)Rh\{\eta^3\text{–}(SePPh_2)_2CH\}]ClO_4$
Yanlong Qian, Jiling Huang, Xiaoping Chen, Guisheng Li, Weichun Chen, Bihua Li, Xianglin Jin and Qingchuan Yang	1105	A novel synthetic route to titanoxacycle complexes
		Announcement
	I	Annual Polyhedron Publication Award

NUMBER 8

POLYHEDRON SYMPOSIA-IN-PRINT NUMBER 13
CHEMICAL APPROACHES TO ADVANCED MATERIALS

Editor: M. H. Chisholm & *Guest Editor*: M. J. Hampden-Smith

	iii	Contributors to this issue
	iv	Deposition of crystallographic data
	v	Announcement: Polyhedron Symposia-in-Print
M. H. Chisholm and **M. J. Hampden-Smith**	1109	Foreword
D. C. Bradley	1111	Volatile metallo-organic precursors for depositing inorganic electronic materials
F. Babonneau	1123	Hybrid siloxane-oxide materials via sol–gel processing: structural characterization
W. E. Buhro	1131	Metallo-organic routes to phosphide semiconductors
A. H. Cowley and R. A. Jones	1149	The single-source precursor concept. A case study of gallium arsenide
Y. Senzaki and **W. L. Gladfelter**	1159	Molecular routes to cobalt arsenide and cobalt phosphide thin films. Comparison of a two-source and a single-source chemical vapour deposition
D. M. Hoffman	1169	Chemical vapour deposition of nitride thin films
L. G. Hubert-Pfalzgraf	1181	Heterometallic alkoxides and oxoalkoxides as intermediates in chemical routes to mixed metal oxides
K. A. Easom, **K. J. Klabunde,** C. M. Sorensen and G. C. Hadjipanayis	1197	Nanoscale magnetic particles. New methods to surface protected metallic and immiscible bimetallic clusters/particles
R. T. Paine, J. F. Janik and M. Fan	1225	Some recent developments in precursor routes to ceramic nanocomposites
R. J. Puddephatt	1233	Reactivity and mechanism in the chemical vapour deposition of late transition metals
M. L. Steigerwald	1245	Clusters as small solids
W. Bell, J. Stevenson, D. J. Cole-Hamilton and J. E. Hails	1253	Evidence for a surface-bound free radical mechanism during the decomposition of $^{i}Pr_2Te$ in the presence or absence of mercury and/or Me_2Cd under MOVPE conditions obtained from deuterium-labelled precursors
D. L. Barnes, N. W. Eilerts, **J. A. Heppert,** W. H. Huang and M. D. Morton	1267	The role of two-component catalysts containing chelating bisaryloxide ligands in controlling the stereochemistry of the metathesis polymerization of norbornene
A. P. Coleman, R. S. Dickson, G. B. Deacon, G. D. Fallon, Mingzhe Ke, K. McGregor and **B. O. West**	1277	The synthesis of some alkyltelluride-manganese(I) complexes, and an assessment of their suitability for MOCVD applications
K. J. Scott, Yiping Zhang and A. Clearfield	1291	The synthesis and characterization of lanthanum phosphite phenylphosphonate mixed derivatives
J. L. Allen and **K. R. Poeppelmeier**	1301	Synthesis of lithium chromium oxide from a hydroxide precursor

G. L. Rosenthal, J. Caruso and S. G. Stone — 1311 — Polymerization of aniline on copper zirconium phosphate and a mixed zirconium phosphonate

A. N. MacInnes, **A. R. Barron,** J. J. Li and T. R. Gilbert — 1315 — Reaction bonded refractory metal carbide/carbon composites

L. H. Dubois — 1329 — Model studies of low temperature titanium nitride thin film growth

Announcement

I — Annual Polyhedron Publication Award

NUMBER 9

iii — Contributors to this issue

iv — Deposition of crystallographic data

F. A. Cotton and W. A. Wojtczak — 1337 — Two new titanium complexes with *N,N′*-diphenylformamidinium ($DPhF^-$),$Ti(DPhF)_3$ and $Ti_2(\mu\text{-}DPhF)_2(DPhF)_2(\mu\text{-}NPh)_2$

M. K. Chaudhuri and P. Srinivas — 1343 — Complex fluorouranates (VI). Synthesis, characterization and structural assessment of new mixed-fluoro complexes of UO_2^{2+} containing phosphate, nitrate or hydrazine as the co-ligands

I. J. Ellison, **R. D. Gillard,** M. Moszner, M. Wilgocki and J. J. Ziolkowski — 1351 — Electrochemical oxidation of basic aqueous solutions of rhodium(III)

M. Shakir, S. P. Varkey and P. S. Hameed — 1355 — Synthesis and spectral studies of binuclear transition metal complexes of diamidediimine hexaazamacrocycles

A. Mohamadou, I. Déchamps-Olivier and **J.-P. Barbier** — 1363 — Copper, nickel and cobalt complexes with N,N-disubstituted, N′-benzoyl thioureas

M. Cameron, **B. G. Gowenlock** and G. Vasapollo — 1371 — Coordination complexes of metal halides with substituted 4-nitrosoanilines

D. P. Kessissoglou, J. Kampf and **V. L. Pecoraro** — 1379 — Compositional and geometrical isomers of 15-metallacrown-5 complexes

Xiao-Ming Chen, Yong-Jia Zhu, Yong-Jin Xu and Xiao-Ying Huang — 1393 — Simultaneous binding of nitrato, *o*-phenanthroline, and carboxylato ligands to manganese(II). Structure of $[Mn(phen)(Me_3NCH_2CO_2)(NO_3)(H_2O)_2](NO_3)\cdot H_2O$

Sung Sil Lee, Moo Jin Jun, Kwan Mook Kim, **Ok-Sang Jung** and **Youn Soo Sohn** — 1397 — Synthesis and structural properties of ylidenemalonatoplatinum(II) complexes

Jianqi Wang, Ying Zhu, Shuangxi Wang, **Yici Gao** and Qizhen Shi — 1405 — Synthesis and crystal structure of the complex $[Lu(bzimpy\text{-}H)(NO_3)_2(CH_3OH)_2]\cdot bzimpy\cdot 2CH_3OH$

D. O. Mártire, L. S. Villata and **A. L. Capparelli** — 1411 — Di-μ-oxo-bis[oxomolybdates(V)] and their single-bridged photolysis intermediates. A semi-empirical study

M. Könemann, W. Stüer, K. Kirschbaum and **D. M. Giolando** — 1415 — Synthesis, crystal structure and electrochemistry of bis(*N,N*-dimethylammonium) tris(1,2-benzenedithiolato)titanate(IV)

V. N. Kokozay and **A. V. Sienkiewicz** — 1427 — Direct synthesis and crystal structure of lead(II) thiocyanate complex with ethylenediamine

A. V. Sienkiewicz and V. N. Kokozay — 1431 — Direct synthesis and crystal structure of lead(II) complexes with 2,2′,2″-nitrilotriethanol

A. V. Sienkiewicz and V. N. Kokozay	1439	Crystal structure of chloride and iodide complexes of lead(II) with 2-dimethylaminoethanol obtained by direct synthesis
A. A. Drozdov, **S. I. Troyanov,** A. P. Pisarevsky and Yu. T. Struchkov	1445	New oligomeric mixed ligand barium chelates containing additional anionic ligands
P. T. Brain, D. Hnyk, **D. W. H. Rankin,** M. Bühl and P. von Ragué Schleyer	1453	The molecular structures of pentaborane(11), B_5H_{11}, and hexaborane(12), B_6H_{12}, in the gas phase as determined by electron diffraction and *ab initio* calculations
S. S. Massoud	1467	Spectroscopic investigation of cobalt(III) complexes of 1,10-diamino-4,7-diazadecane (3,2,3-tet)
Sun Hong-Sui, You Xiao-Zeng, Yin Yuan-Qi and Yu Kai-Bei	1475	Syntheses and reactions of new type carbyne compounds; crystal structure of the compound $[Br(CO)_2(C_5H_5N)_2Mo{\equiv}CC_6H_5]$
		Communications
H. D. B. Jenkins, L. Sharman, A. Finch and P. N. Gates	1481	Energetics of the tetrachlorophosphonium cation, PCl_4^+,g, the hexachlorophosphate anion, PCl_6^-,g and metastable phosphorus (V) chloride $[PCl_4^+]_2[PCl_6^-][Cl^-]$,c
Chaode Sun, Gecheng Wei, Zhongsheng Jin and **Wenqi Chen**	1483	Synthesis and crystal structure of $[Me_4C_2Cp_2SmCl \cdot THF]_2$
Jun Ho Shin and **G. Parkin**	1489	The syntheses, structures and reactivity of some mononuclear and dinuclear pentamethylcyclopentadienyl molybdenum complexes
		Announcement
	I	Annual Polyhedron Publication Award

NUMBER 10

	iii	Contributors to this issue
	iv	Deposition of crystallographic data
E. Bermejo Gonzalez, N. N. Daeid, **K. B. Nolan** and **E. Farkas**	1495	Complex formation between transition metal ions and salicylglycine, a metabolite of aspirin
V. C. Ginn, P. F. Kelly and **J. D. Woollins**	1501	Multinuclear NMR studies upon ^{15}N labelled metalla-chalcogen–nitrogen complexes
B. W. Tattershall and N. L. Kendall	1507	Phosphorus sulphide cage molecules with exocyclic phosphorus-centred substituents: NMR parameters for α-tetraphosphorus trisulphide compounds with PPh_2, $P(S)Ph_2$ or μ-PPh ligands
B. W. Tattershall and N. L. Kendall	1517	NMR evidence for new phosphorus halides
T. Ozawa, K. Iwai, K. Jitsukawa, H. Masuda and **H. Einaga**	1523	Thermodynamic and kinetic studies of formation mechanisms of iron(III) complexes with N^{α}-salicyl-L-alaninehydroxamic acid, L-alaninehydroxamic acid and N^{α}-salicyl-L-alanine: role of hydroxamate group on enhancement of the stability
Y. Nishida, S. Takahashi, I. Watanabe, A. Yamazaki, H. Itoh and M. Sakamoto	1539	Origin of high reactivity of peroxide adduct of manganese(III) Schiff base complexes towards organic acid anhydrides

I. A. Salem	1547	A kinetic approach for the homogeneous reaction between N,N′—propylenebis (salicylideneiminato)manganese(III) complex and hydrogen peroxide in aqueous solution
C. Pettinari, C. Santini, D. Leonesi and P. Cecchi	1553	Synthesis and characterization of some zinc, cadmium and mercury(II) derivatives of bis(4-methylpyrazol-1-yl) alkanes
M. Cano, J. V. Heras, M. A. Lobo, E. Pinilla and M. A. Monge	1563	Mono- and binuclear quinaldinate complexes of rhodium with (P—P) donor ligands. Crystal structure of $[Rh_2(quin)_2(CO)_2(\mu\text{-dppm})]$. Oxidative addition reactions—V
M. Cano, J. V. Heras, M. A. Lobo and E. Pinilla	1575	Reactivity of [Rh(quin)(NBD)] towards arylic mono- and diphosphine ligands—VI
Yu Shu-Yan, **Luo Qin-Hui,** Xu Xing-You, Shen Meng-Chang and Huang-Liang-Ren	1583	The preparation and crystal structure of a novel trigonal bipyramidal copper(II) complex
Yong-Ge Wei, **Shi-Wei Zhang,** Gui-Qing Huang and Mei-Cheng Shao	1587	Synthesis, spectrum and single crystal structure of a peroxovanadium complex of nitrilotriacetate ligand without water of crystallization, $K_2[VO(O_2)NTA]$
E. Diamantopoulou, T. F. Zafiropoulos, **S. P. Perlepes,** C. P. Raptopoulou and **A. Terzis**	1593	Synthetic and structural chemistry of nickel(II)/1-methylbenzotriazole complexes
M. Fukazawa, M. Kita and **M. Nonoyama**	1609	Palladium(II) complexes of *N,N*-dimethylpyrrole-1- and 2-carbothioamides
E. Reguera, J. F. Bertrán and L. Nuñez	1619	Study of the linkage isomerization process in hexacyanometallates
H. Sakane, I. Watanabe, Y. Yokoyama, S. Ikeda and **T. Taura**	1625	Solvent effects on cobalt(III) and chromium(III) oxalato complexes by X-ray absorption fine structure
M. G. B. Drew, A. P. Mullins and **D. A. Rice**	1631	Synthesis, characterization and structural properties of some copper(II) *trans*-cinnamates and related compounds
S. Boghosian and O. Herstad	1639	Vapour complexation and thermochemistry over $NaI–TbI_3$ mixtures: a mass spectrometric investigation
Shu-Lin Ma, Dai-Zheng Liao, Zong-Hui Jiang, Shi-Ping Yan and **Geng-Lin Wang**	1647	Synthesis and magnetic properties of binuclear copper(II) complexes with N,N′-bis(2-aminoethyl)oxamidocopper(II)
		Communications
P. Scott and P. B. Hitchcock	1651	Synthesis of tripodal amido complexes of the early actinides; molecular structure of $\{N[CH_2CH_2N(SiMe_3)]_3UCl\}_2$
C. J. Carmalt, **N. C. Norman** and **L. J. Farrugia**	1655	The structure of an unusual polymeric iodoantimonate(III) anion with disordered antimony sites
		Book Review
S. Cotton	1659	Elements of Magnetochemistry by R. L. Dutta and A. Syamal
		Announcement
	I	Annual Polyhedron Publication Award

NUMBER 11

	iii	Contributors to this issue
	iv	Deposition of crystallographic data
Shangxi Wang, Yuxin Cui, **Renxiang Tan,** Qinhui Luo, Jianqiu Shi and Qiangjin Wu	1661	Synthesis, structure and ^{1}H NMR spectra of cadmium complexes with 2,6-bis(benzimidazol-2′-yl)pyridine
M. Cano, M. Panizo, J. A. Campo, E. Gutiérrez-Puebla, M. Angeles Monge and C. Ruiz-Valero	1669	Reactivity of carbonyl complexes containing Mo—Hg bonds; reaction of tin(II) halides with $[Mo(CO)_3$ (NN) (HgX) (X)] (NN = bpy, phen, dmp); crystal structure of $[Mo(CO)_3$ (dmp) (HgCl) (Cl)]
C. Imrie, **T. A. Modro** and P. H. van Rooyen	1677	Structural study of arylmethyldiphenylferrocenylphosphonium salts
D. J. Williams, **S. J. Maginn** and R. J. Davey	1683	The X-ray crystal structure of lead acetophthalate, $Pb(CH_3COO)_2 \cdot 4[PbC_6H_4(COO)_2]$
M. Bukowska-Strzyżewska, A. Tosik, D. Wódka and **J. Zakrzewski**	1689	The X-ray crystal structure, ^{13}C and ^{15}N NMR spectra of (η^5-C_5H_5) Fe(CO)$_2$ (η^1-N-phthalimidato)
Jingwen Guan, **Qi Shen,** Songchun Jin and Yonghua Lin	1695	Synthesis and crystal structure of bis(cyclopentadienyl)amido complex of neodymium, $[Li(DME)_3]$ $[(\eta^5\text{-}C_5H_5)_2Nd(NPh_2)_2]$
Jing-Tang Chen, Dai-Zheng Liao, Ruo-Hua Zhang, Zhen-Lin Xiong and Guang-Ming Yang	1701	Studies on the synthesis and magnetism of binuclear oxovanadium(II) complexes of some isonicotinoyl hydrazones
J. P. Fackler, Jr, G. Garzon, R. A. Kresinski, H. H. Murray III and R. G. Raptis	1705	Syntheses and characterizations of tin complexes of methylenediphenylphosphinate ligands: the crystal structures of $[Ph_{4-x}Sn(CH_2P(S)Ph_2)_x]$ (x = 1–4) and $[Ph_2SnCl(CH_2P(O)Ph_2)]_2$
N. Azuma, T. Ozawa and K. Ishizu	1715	Molecular and crystal structures of *trans*-$[VOCl_2(H_2O)_2]$ hydrogen bonded adducts with 15-crown-5 and benzo-15-crown-5 ether
L. Deshayes, N. Keller, M. Lance, **A. Navaza,** M. Nierlich and J. Vigner	1725	EXAFS analysis of aqueous and acetonitrile solutions of UO_2-triflate with crown-ethers and aza-crowns. Crystals structures of the inclusion complexes UO_2(18-crown-6)$(CF_3SO_3)_2$ and UO_2(dicyclohexyl-18-crown-6)$(CF_3SO_3)_2$
E. Labisbal, J. Romero, J. A. Garcia-Vazquez, C. Gomez, **A. Sousa,** R. Pritchard and C. A. McAuliffe	1735	Synthesis of cadmium(II) complexes of 2-(2-mercaptophenyl)-imino-phenols by the electrochemical cleavage of a disulphide bond: the crystal structure of {(1,10-phenanthroline)[2-(2-mercaptophenyl)iminophenoxy]}cadmium(II)
J. C. Peters, **G. L. Hillhouse** and A. L. Rheingold	1741	Synthesis, structure and reactions of *trans, trans*-Cr(H) $(CO)_2$ (NO) $(PPh_3)_2$. Preparation of a stable phenyldiazene complex of chromium(0)
T. Mihara, **H. Tomiyasu** and **Woo-Sik Jung**	1747	Kinetics and mechanism of ligand exchange reaction in tetrakis-(acetylacetonato)cerium(IV) in C_6D_6 and CD_3CN
J. Szklarzewicz, A. Samotus, O. Traverso and S. Sostero	1755	A novel W^V–W^{IV} reversible system: the preparation and characterization of $[W(CN)_6(phen)]^{2-}$ and $[W(CN)_6(phen)]^-$ salts
E. Alberico, **G. Micera,** D. Sanna and A. Dessì	1763	Coordination of oxovanadium(IV) to aminocarboxylic acids in aqueous solution
S. J. Dossett, Sihai Li and **F. G. A. Stone**	1773	An allyl(carborane)nitrosyl molybdenum complex: preparation and reactivity
F. A. El-Saied, R. M. El-Bahnasawy, **M. A. Azzem** and A. K. El-Sawaf	1781	Synthesis, characterization and electrochemical properties of β-diketone complexes of ruthenium(III)

M. E. M. Hamidi and **J.-L. Pascal** 1787 Synthesis and structural characterization of some anhydrous $Ln(OTf)_3$ complexes (Ln = Sc, La, Nd, Sm, Gd and Er; OTf = CF_3SO_3)

Y. Gök 1793 Synthesis and characterization of new (E,E)-dioximes and their cobalt(III) complexes containing crown ether moieties

Yan Shiping, Cheng Peng, Peng Jiuhe, Liao Daizheng, Jiang Zonghui and Wang Genglin 1801 Synthesis and magnetic properties of binuclear copper(II) complexes with alkoxide bridges

Announcement

I Annual Polyhedron Publication Award

NUMBER 12

iii Contributors to this issue

iv Deposition of crystallographic data

J. S. Casas, A. Castiñeiras, **I. Haiduc,** A. Sánchez, J. Sordo and E. M. Vázquez-López 1805 Supramolecular self-organization in *catena*-poly [dimethyl-(diphenylphosphinothioato)thallium(III)], $[TlMe_2\{S(O)PPh_2\}]_n$, a polymer with secondary interactions between the chain segments

S. Dutta and **A. Chakravorty** 1811 Water soluble manganese(III) and manganese(IV) complexes of tridentate ONO ligands

T. K. Mallick, P. K. Das, S. Sinha and **B. K. Ghosh** 1817 Mixed-ligand complexes of ruthenium(II)- and osmium(II)-2-(arylazo)pyridines with one 2,2′-bipyrazine/2,2′-bipyrimidine: synthesis, spectra and electrochemistry

M. L. Ramos, M. M. Caldeira, **V. M. S. Gil,** H. van Bekkum and J. A. Peters 1825 Multinuclear NMR study of the complexation of D-galactaric and D-mannaric acids with molybdenum(VI)

M. Cano, M. Panizo, J. A. Campo, J. Tornero and N. Menéndez 1835 Heterobimetallic Mo—Sn complexes of the type $[Mo(CO)_2(phen)\{P(4\text{-}XC_6H_4)_3\}(Cl)(SnRCl_2)]$

Jun Li, **Chun-Wan Liu** and Jia-Xi Lu 1841 Electronic structures and d–$p\pi$ bonding of some $M_3X_4^{4+}$ cluster compounds

M. G. Basallote, R. Vilaplana and **F. González-Vílchez** 1853 Synthesis and kinetic study of palladium and platinum complexes with aminopolycarboxylate ligands

E. J. Baran, S. B. Etcheverry, M. H. Torre and E. Kremer 1859 Preparation and properties of copper(II) sebacate

T. A. Rao and **B. G. Maiya** 1863 Spectroscopic, redox and emission properties of 2-nitro-substituted free base- and metallo-tetra-aryl porphyrins

W. M. Laidlaw and **R. G. Denning** 1875 Synthesis, intervalence characteristics and electrochemistry of pentacarbonyl-molybdenum(0) and -tungsten(0)-μ-cyano penta-ammineruthenium(III) mixed-valence complexes

Ruohua Zhang, Yali Zhan and Jingtang Chen 1881 Synthesis and characterization of new lanthanide complexes of bis(phenylsulphinyl)propane

Seong Huh, Yangha Cho, **Moo-Jin Jun,** Dongmok Whang and Kimoon Kim 1887 The catalytic activity of new ruthenium(II) complexes containing chelating diphosphine ligand in the homogeneous hydrogenation of cyclohexene

C. P. Rao, S. P. Kaiwar and M. S. S. Raghavan	1895	Transition metal saccharide chemistry: synthesis, spectroscopy, electrochemistry and magnetic studies of chromium(III)–hexose complexes and their *in vitro* interaction with DNA
M. M. Aly and S. M. Imam	1907	Site occupancy and reactivity of nickel(II) and palladium(II) coordination compounds of vicinal oxime-imine ligands: an interpretation to the phenomenon of chelate isomerism in the same molecule
D. Kovala-Demertzi, A. Domopoulou, M. Demertzis, C. P. Raptopoulou and A. Terzis	1917	Coordinating properties of 2-acetylpyridine thiosemicarbazone. Palladium(II) complexes with neutral and deprotonated ligand. X-ray structure of bromo(2-acetylpyridine thiosemicarbazonato) palladium(II)
Suobo Zhang, Gecheng Wei, **Wenqi Chen** and Juzheng Liu	1927	Synthesis and crystal structure of $\{(C_8H_8)Dy[\mu\text{-}OCH_2(CH_2)_2CH{=}CH_2](THF)\}_2$
F. Marrot and J.-C. Trombe	1931	Synthesis, characterization and structure of a diaqua lanthanum bimalonate malonate monohydrate
S. W. A. Bligh, C. T. Harding, A. B. McEwen, **P. J. Sadler,** J. D. Kelly and J. A. Marriott	1937	Synthesis, characterization and comparative study of aminophosphonate chelates of gadolinium(III) ions as magnetic resonance imaging contrast agents
B. R. Cockerton and **A. J. Deeming**	1945	Abstraction of the pyS ligand from $[Re_2Ru_2(\mu_4\text{-}S)(\mu\text{-}C_5H_4N)(\mu\text{-}pyS)(CO)_{13}]$ by $[Ru_3(CO)_{12}]$. Crystal structure of $[Re_2Ru_2(\mu\text{-}H)(\mu_4\text{-}S)(\mu\text{-}C_5H_4N)(CO)_{14}]$
Zhuang Jin Zhong, Xiao-Zeng You and Qing-Chuan Yang	1951	Crystal structure and properties of a polymeric chain copper(II) complex $[Cu(bpc)(H_2O)_2]$ (bpc = 2,2′-bipyridyl-3,3′-dicarboxylate)
		Announcement
	I	Annual Polyhedron Publication Award

NUMBER 13

COORDINATION CHEMISTRY CENTENNIAL SYMPOSIUM (C_3S)

Guest Editor: G. B. KAUFFMAN

	iii	Contributors to this issue
	iv	Deposition of crystallographic data
	v	Contents
	1958	Participants at the opening session of the Coordination Chemistry Centennial Symposium (C_3S)
G. B. Kauffman	1961	Foreword
T. Yasui, T. Ama and H. Kawaguchi	1963	Stereoselective isomerization of chiral cobalt(III) complexes
L. L. Martin, **R. L. Martin** and A. M. Sargeson	1969	The ligand field $^1A_1$-$^5T_2$ spin crossover with iron(II) encapsulated in hexa-amine cages
Sm. P. Chattopadhyay and **D. Banerjea**	1981	Dynamics of complex formation in M(II)-nitrilotriacetate-L systems (M(II)=cobalt(II), nickel(II); L=SCN^-, bipy, phen)

W. J. Kasowski and J. C. Bailar Jr✠	1989	Steric effects in coordination of 1,1,1-tris(dimethylaminomethyl)ethane and of 1,1,1-tris(monomethylaminomethyl) ethane—II. Zinc iodide and cadmium iodide complexes
W. J. Kasowski and J. C. Bailar Jr✠	1997	Zinc halide complexes of 2,2-bis(dimethylaminomethyl)propane and the identity of the stereoselected conformer characteristic of the zinc halide complexes of 1,1,1-tris(dimethylaminomethyl) ethane
R. B. King	2005	The topology of coordination polyhedra and their rearrangements
R. S. Drago	2017	Advantages of *E* and *C* based interpretations of coordination chemistry
N. Saha, A. Saha and A. Misra	2025	Design, synthesis and spectroscopic characterization of palladium(II) and platinum(II) complexes of pyrazole-derived ligands with potential anti-tumour properties in its historical perspective
T. A. Budzichowski and **M. H. Chisholm**	2035	Coordination chemistry of complexes with metal–metal multiple bonds: reversible coordination of cyanide ion by dimolybdenum and ditungsten hexaalkoxides
R. D. Archer, A. Lauterbach and V. O. Ochaya	2043	The synthesis of metal coordination polymers using lessons learned from monomeric Werner complexes: chromium(III) β-diketone polymers
K. Dey, K. K. Nandi and G. B. Kauffman	2049	Silylation coupled with desilylation as a route to newer syntheses
W. J. Birdsall, D. P. Long, S. P. E. Smith, M. E. Kastner, K. Tang and C. Kirk	2055	Steric influences on the formation of nickel(II) complexes containing Schiff base derivatives of 2-acetylpyrrole with primary amines
Yu-Chul Park, Young-Woo Kwak and Seong-Su Kim	2061	Synthesis of copper(II) and nickel(II) of 1,8-dimethyl-5, 12-diethyl-1,4,8,11-tetra-azacyclotetradeca-4,11-diene and properties of nickel(II) complexes of N-alkyldiene N_4 macrocycles
T. Nyokong	2067	Photoreduction of tin(IV) phthalocyanines
Tsz-Chun Cheung, Ting-Fong Lai and **Chi-Ming Che**	2073	Spectroscopic properties and crystal structure of a gold(III) amide complex: $[Au(HL)Cl_2]$ (H_2L = 2,2′-bis(2-pyridylcarboxyamide)-1,1′-binaphthyl)
Xiao-Ming Chen, Zhi-Tao Xu, Xiao-Lan Yu and T. C. W. Mak	2079	Preparation and crystal structures of bis(*o*-phenanthroline) (acetato)zinc(II) perchlorate and bis(2,2′-bipyridine) (pyridinioacetato)zinc(II) diperchlorate
B. R. Cockerton and **A. J. Deeming**	2085	A hexanuclear ruthenium cluster with a boat configuration of the Ru_6 core
Wang Bo, **Yang Shiyan** and Jin Daosen	2089	Complexes of lanthanides with unsymmetrical tridentate Schiff base ligands
Liu Jinxia, Wang Bo, Xie Wenjuan, **Yang Shiyan** and Jin Daosen	2095	Spectra and chiroptical studies on lanthanide(III) complexes of D-camphor-β-sulphonic acid
		Announcement
	I	Annual Polyhedron Publication Award

NUMBER 14

iii Contributors to this issue

iv Deposition of crystallographic data

Shi Yaocheng, Song Qingbao, Wu Xiaoli and **Ma Yongxiang** 2101 Formylferrocene 2-thenoyl hydrazone and its bivalent transition metal complexes

B. J. Coe, **C. J. Jones, J. A. McCleverty,** D. Bloor, P. V. Kolinsky and R. J. Jones 2107 Non-linear optical materials containing molybdenum or tungsten mononitrosyl redox centres. Second harmonic generation by heterobimetallic complexes containing ferrocenyl donor and molybdenum mononitrosyl acceptor groups separated by an aryl ring

B. J. Coe, **C. J. Jones** and **J. A. McCleverty** 2117 Approaches to the preparation of non-linear optical materials containing molybdenum mononitrosyl redox centres. An investigation of routes to chiral complexes

W. Radecka-Paryzek and V. Patroniak 2125 The template synthesis and characterization of alkaline earth metal ion nitrate macroacyclic Schiff base complexes

R. J. Forder, I. S. Mitchell, **G. Reid** and R. H. Simpson 2129 Platinum metal complexes of secondary phosphines: synthesis and NMR spectroscopic studies of $[M(PCy_2H)_3Cl]^+$, M=Pt, Pd

A. J. Blake, G. Reid and **M. Schröder** 2135 Platinum metal complexes of hexa-aza macrocycles: synthesis and single crystal X-ray structure of $[Pd_2Cl_2(Me_6[18]aneN_6)](PF_6)_2$ ($Me_6[18]aneN_6$ = 1,4,7,10,13,16-hexamethyl-1,4,7,10,13,16-hexaazacyclooctadecane)

F. A. Mautner and M. A. S. Goher 2141 Spectroscopic and crystal structure study of polymeric 2 : 3 and 1 : 1 complexes of 2,6-lutidine and 3,4-lutidine with copper(II) azide; $Cu_3(2,6\text{-lutidine})_2(N_3)_6$ and $Cu(3,4\text{-lutidine})(N_3)_2$

M. A. S. Goher and **F. A. Mautner** 2149 Spectroscopic and crystal structure study of $NaCu(picolinato)_2(N_3)(H_2O)_2$. A polymeric structure containing simultaneous bridging pentadentate picolinato anion and $\mu(1,3)$ azido ligands between copper and sodium centred polyhedra

Zhuang Jin Zhong, Xiao-Zeng You and T. C. W. Mak 2157 Synthesis, crystal structure and properties of a linear trinuclear manganese(II) complex $[Mn_3(CH_3CO_2)_2(bpc)_2(py)_4(H_2O)_2] \cdot 0.5H_2O$

L. G. Hubert-Pfalzgraf, F. Labrize, C. Bois and J. Vaissermann 2163 Barium β-diketonate derivatives with aminoalcohols: synthesis, molecular structure and thermal behaviour of $Ba_5(\mu_4\text{-OH})(\mu_3,\eta^2\text{-OCHMeCH}_2\text{NMe}_2)_4(\mu,\eta^2\text{-thd})_4(\eta^2\text{-thd})$ and of $[Ba(\mu,\eta^2:\eta^2\text{-thd})(\eta^2\text{-thd})(\eta^2\text{-OHCHMeCH}_2\text{NMe}_2)]_2$

P. Cecchi, **G. Gioia Lobbia,** F. Marchetti, G. Valle and S. Calogero 2173 First-row transition- and group 12- and 14-metal(II) bis[hydridotris(3-Me-1*H*-pyrazol-1-yl)borate]. The X-ray crystal structure of the nickel derivative

Li-Cheng Song, Zhi-Fu Tao, Qing-Mei Hu, Ru-Ji Wang and Hong-Gen Wang 2179 Synthesis and characterization of trimetallic complexes $[\eta^5\text{-}RC_5H_4(CO)_3E]_2Hg$ (E=Cr, Mo, W; R=Me, Et, *n*-Bu). Crystal structure of $[\eta^5\text{-}EtC_5H_4(CO)_3Cr]_2Hg$

Bao-Hui Ye, Xiao-Ming Chen, Tian-Xian Zeng and **Liang-Nian Ji** 2185 Syntheses, crystal structures and spectroscopic characterization of $[Co(phen)_2(gly)]Cl_2 \cdot 4H_2O$ and $[Co(phen)_2(H_2O)_2](NO_3)_3 \cdot 2H_2O$

Qimin Liu, Jianggao Mao, Shugong Zhang, Jiazuan Ni and Chunji Niu 2193 Synthesis and crystal structures of a new non-cyclic ligand and its lanthanum(III) complex

T. S. Knowles, M. E. Howells, B. J. Howlin, G. W. Smith and C. A. Amodio 2197 Improved synthetic routes to tris(acetylacetonato)ruthenium(III) and a redetermination of the structure of the β-polymorph

Y. Nishida, I. Watanabe, S. Takahashi, T. Akamatsu, A. Yamazaki and M. Sakamoto — 2205 — Electrochemical evidence for weak interaction between oxovanadium(IV) complexes and the dioxygen molecule

B. Bonnetot, B. Frange, F. Guilhon, **H. Mongeot** and W. Einholz — 2211 — Adducts of trichloroborane with cyanamides. Thermal degradation to boron nitride

K. K. Sarma, **T. S. Basu Baul,** E. Rivarola and R. P. Agrawal — 2217 — Characterization of some triphenyltin(IV) complexes of 5-(arylazo)salicylaldehyde ligands using IR, ^{1}H, ^{13}C, ^{119}Sn NMR and ^{119}Sn Mössbauer spectroscopy

Soon-Beng Teo, Siang-Guan Teoh, R. C. Okechukwu and Hoong-Kun Fun — 2223 — A dimeric tin(IV) complex derived from the reaction of 2-(2-methoxyphenyl)benzothiazole with tin(II) chloride

2229 Erratum

Announcement

I Annual Polyhedron Publication Award

NUMBER 15/16

iii Contributors to this issue

iv Deposition of crystallographic data

v Announcement: Polyhedron Reports

POLYHEDRON REPORT NUMBER 50

T. Imori and **T. D. Tilley** — 2231 — The influence of catalyst structure on the dehydropolymerization of phenylsilane

---

Y. Nishida, N. Tanaka and M. Okazaki — 2245 — Chemical mechanism of olefin oxygenation reaction catalyzed by bis(acetylacetonato)nickel(II) or cobalt(II) compounds in the presence of reducing agents

Y. Nishida, T. Akamatsu, K. Tsuchiya and M. Sakamoto — 2251 — Effect of proton on the catalase-like function of binuclear manganese(III/IV) complexes with di-μ-oxo bridge

Liu Guofa, Shi Tongshun and Liu Xiaoxun — 2255 — Lanthanide complexes with acetylacetonate and 5-(4-hydroxyphenyl)-10,15,20-triphenylporphyrin ligands

C. F. Shue, Z. C. Lee, **H. H. Wei,** M. C. Cheng and Yu Wang — 2259 — Mössbauer and magnetic studies of copper(II)–phthalocyanine effect on the spin states of bis(*N*-*o*-tolyl-2-imidazolaldimine) iron(II) dithiocyanate

D. A. Brown, **M. G. H. Wallbridge,** Wan-Sheung Li and M. McPartlin — 2265 — Chlorocarboxylates of tantalum and niobium. X-ray crystal and molecular structures of $[TaCl_4(O_2CR)]_2$ (R=*p*-ClC_6H_4) and $[NbCl_4(O_2CR)]_2$ (R=C_6F_5)

B. Kamenar, M. Cindrić and N. Strukan — 2271 — Synthesis and structure of a molybdovanadate with the asymmetric $[Mo_4V_5O_{27}]^{5-}$ anion

L. Ballester, A. Gutierrez, **M. F. Perpiñán,** T. Rico, E. Gutierrez-Puebla and A. Monge — 2277 — Electrochemical synthesis and studies on the reactivity of heterocyclic-thionato derivatives of nickel(II) with nitrogen donor bases

A. C. Stergiou, S. Papastephanou and **C. Tsiamis** — 2285 — Crystal structure and spectra of bis(2,2-dimethyl-1,3-diaminopropane)copper(II) nitrate

D. A. Bardwell, J. G. Crossley, **J. C. Jeffery,** A. G. Orpen, E. Psillakis, E. E. M. Tilley and **M. D. Ward**	2291	A study of crystal packing in a series of closely related square-planar palladium(II) and platinum(II) complexes
A. P. Coleman, Mingzhe Ke, **R. S. Dickson,** G. B. Deacon and B. O. West	2301	The formation and thermal decomposition of some alkyl- and acetyl-manganesecarbonyl complexes with dialkyltellurium ligands
P. Román, J. I. Beitia, A. Luque and C. Guzmán-Miralles	2311	Synthesis, chemical characterization, structural data and thermal behaviour of 3-methylpyridinium salts of 1,2-dithiooxalato-S, S′ complexes with formula $(HB)_2[M(S_2C_2O_2)_2]$ (M = Ni^{II}, Pd^{II} and Pt^{II})
M. Shakir, S. P. Varkey, F. Firdaus and P. S. Hameed	2319	Template synthesis of iron(II), cobalt(II), copper(II) and zinc(II) complexes of diamidediimine macrocycles
S. Ameerunisha and **P. S. Zacharias**	2327	Copper(II) and copper(I) complexes of "tweezer" ligands. Influence of substituents on the transport of copper(II) ions across liquid membranes
Xiaoqing Wang, **Tianzhu Jin,** Qingri Jin, Guangxian Xu and Shiwei Zhang	2333	Synthesis of heteronuclear yttrium and lanthanide complexes with alanine; X-ray crystal structure of $[ErY(Ala)_4(H_2O)_8](ClO_4)_6$
W. M. Laidlaw and **R. G. Denning**	2337	Group VI–VIII heterobinuclear mixed-valence complexes, $[(OC)_5M'(\mu\text{-}CN)M(NH_3)_5](CF_3SO_3)_2$ (M′ = Cr, Mo, W; M = Ru, Os): intervalence and electrochemical characteristics
T. Ozawa, K. Jitsukawa, H. Masuda and **H. Einaga**	2343	Thermodynamic stabilities and formation mechanisms of iron(III) complexes with N^{α}-carboxymethyl-N^{α}-salicyl-L-phenylalanine and N^{α}-salicyl-L-phenylalanine: enhanced thermodynamic stability by additional methylcarboxylate group
J. Emri and B. Györi	2353	On the existence of isocyanotrihydroborate
M. Devereux, **M. McCann,** J. F. Cronin, C. Cardin, M. Convery and V. Quillet	2359	Synthesis and X-ray crystal structure of the copper(I) dicarboxylic acid complex $[Cu(\eta^1\text{-bdoaH})(PPh_3)_3]$ ($bdoaH_2$ = benzene-1,2-dioxyacetic acid)
D. Lux, D. Daphnomili and **A. G. Coutsolelos**	2367	Action of alkyl halides on homo- and hetero-porphyrin dimers involving a rhodium–indium bond, producing porphyrin complexes containing metal–carbon and metal–halide bonds
Y. Y. Lim, W. Chen, L. L. Tan and K. H. Lim	2379	Synthesis, spectroscopic and X-ray crystal studies of mixed-chelate copper(II) complexes containing a novel β-diketonate ligand
R. Shukla, **P. K. Bharadwaj,** J. van Hall and **K. H. Whitmire**	2387	Mononuclear manganese(III) complexes with imine/amine and phenolate ligation: X-ray structural, spectroscopic and electrochemical studies
Song Qingbao, Wu Xiaoli, Liang Yongmin and **Ma Yongxiang**	2395	Acylferrocene 2-furoyl hydrazones and their transition metal(II) complexes
A. J. Downs and L. A. Jones	2401	Hydridoaluminium bis(tetrahydroborate): a new synthesis and some physical and chemical properties
P. S. Tanner and **T. P. Hanusa**	2417	Encapsulated alkaline-earth metallocenes—4. Thermal instability in tetraphenylcyclopentadienyl barium complexes
Bi Lihua, Peng Jun, Chen Yaguang, Lu Jingfu and **Qu Lunyu**	2421	Synthesis and properties of β-nonatungstotrimetalgallate heteropoly complexes

G. Smith, A. N. Reddy, K. A. Byriel and C. H. L. Kennard	2425	Silver(I) carboxylates—Part 11. The preparation and crystal structures of silver(I) nicotinate, ammonium silver(I) nicotinate monohydrate, ammonium silver(I) dipicolinate dihydrate, and silver(I) *N*-acetylanthranilate dihydrate
D. G. Holah, **A. N. Hughes,** R. T. Markewich, Wei Xu, V. R. Magnuson and B. A. Nelson	2431	New bis(diphenylphosphino)methane-bridged d^{10}-d^{10} heterobinuclear complexes derived from $Ni(CO)_2$ (η^1-$Ph_2PCH_2PPh_2$)$_2$ and $Ni_2(\mu$-$CO)(CO)_2(\mu$-$Ph_2PCH_2PPh_2)_2$: the crystal structure of $NiCu(CO)_2(\mu$-$Ph_2PCH_2PPh_2)_2(BH_3CN)$
Xianglin Jin, **Kaluo Tang,** Haihong Ni and Youqi Tang	2439	Synthesis and crystal structure of a novel Keggin-type isopolyoxomolybdate $[Bu_4N]_6[H_3O]_2[Mo_{13}O_{40}]_2$
		Communications
Hsin-Tien Chiu, Shiow-Huey Chuang, Gene-Hsiang Lee and **Shie-Ming Peng**	2443	A novel synthesis of organoimido complex by transamination reaction. X-ray crystal structure of a bis(isopropylimido) complex of tungsten(VI), $[W(\mu$-$NPr^i)(NPr^i)(NHPr^i)_2]_2$
A. A. Kamnev, Y. D. Perfilyev and V. Angelov	2447	Coordination symmetry of solid-phase ferric hydroxo complexes formed in strong alkali: an *in situ* Mössbauer study
J. Pola and **R. Taylor**	2451	Evidence for a role of charge-transfer complex and isotope-solvent effect in iodination of phenylsilane
M. Watson, **S. Woodward, G. Conole,** M. Kessler and G. Sykara	2455	A case of severe steric aggravation: X-ray structural analysis of *cis*-$Mo(CO)_4$ (PCy_3)$_2$ (Cy = *cyclo*-C_6H_{11})
A. A. Drozdov, **S. I. Troyanov,** A. P. Pisarevsky and Yu. T. Struchkov	2459	Synthesis and crystal structure of hydrated barium 2,2,6,6-tetramethylheptanedionate $[Ba_6(thd)_{12}(H_2O)_{13}]$
M. Cano, J. A. Campo, J. V. Heras, E. Pinilla, C. Rivas and A. Monge	2463	Trispyrazolylborate degradation in rhodium complexes. Crystal structure of [Rh(3-Bu^t-$C_3N_2H_2$)(NBD)(3-Bu^t-$C_3N_2H_3$)]
Yu Shu-Yan, **Luo Qin-Hui,** Shen Meng-Chang, Zhang Zheng, Huang Xiao-Yun and Wu Qiang-Jin	2467	A bridge-twisted binuclear silver(I) cryptate
H. J. Breunig, M. A. Mohammed and K. H. Ebert	2471	Preparation and structure of $[(Me_2Sb)_3O]Br$, a planar stibino oxonium salt
		Announcement
	I	Annual Polyhedron Publication Award

NUMBER 17

	iii	Contributors to this issue
	iv	Deposition of crystallographic data
Y. Nishida, H. Itoh and A. Yamazaki	2473	On the chemical mechanism of aldehyde metabolism by cytochrome P-450
Y. Kitamura, A. Shibata, **N. Azuma** and T. Ozawa	2477	Crystal structure of conglomerates of *trans*(O)-N-(2-aminoethyl)-N-(carboxymethyl)glycinatoaquachlorocobalt(III) and of *mer*(N)-N,N-bis(2-aminoethyl)glycinatoaquachlorocobalt(III) perchlorate

K. Yoshitani, **Y. Kitamura** and A. Shibata	2483	Reaction volume for the covalent hydration of cobalt(III) complexes with a hexafluoro-2,4-pentanedionato ligand in water and in methanol
Wu Mingmei, **Su Qiang,** Ren Yufang, Hu Gang, Du Sinlin, Cao Xueqiang and Wu Zhijiang	2489	Preparation of periodatocuprate(III) and telluratocuprate(III) by electrochemical and ozone oxidation
Jie Dai, S. Akiyama, M. Munakata and M. Mikuriya	2495	A novel oxo-bridged dinuclear vanadium(V,V) complex of Schiff base and its conversion with mononuclear vanadium(IV) complex
E. W. Abel, P. J. Heard, **K. G. Orrell,** M. B. Hursthouse and K. M. A. Malik	2501	Isolation and characterization of the pyridazine (pydz) bridged halogenotrimethylplatinum(IV) complexes $[(PtXMe_3)_2(\mu\text{-pydz})]$ (X=Cl, Br, I). X-ray crystal structure of $[(PtIMe_3)_2(\mu\text{-pydz})]$
G. Giordano and **E. Rotondo**	2507	Isomerization mechanism of dinuclear chloro-bridged rhodium(I) complexes
A. Panfil, A. Terron, **J. J. Fiol** and M. Quiros	2513	Synthesis and characterization of a novel copper(II)–cytosine complex: tetrakis(cytosine)copper(II) chloride bis(dimethylacetamide) solvate
A. Lehtonen and **R. Sillanpää**	2519	Synthesis and crystal structures of bis(2,3-dimethyl-2,3-butanediolato)(1,2-ethanediolato)tungsten(VI) and tris(2,3-dimethyl-2,3-butanediolato)tungsten(VI)
N. C. Norman, N. L. Pickett, W. D. Storr, N. M. Boag and A. J. Goodby	2525	Synthetic studies on antimony and bismuth complexes containing the Ni(CO) (η-C_5Me_5) fragment
K. H. Ebert, H. J. Breunig, C. Silvestru and **I. Haiduc**	2531	Crystal and molecular structure of (dimethyldithiophosphinato) dimethylantimony(III), $^1_\infty[Me_2SbS_2PMe_2]$, a chain polymer built through secondary, intermolecular Sb $\cdots$ S interactions
Soon-Beng Teo, Chew-Hee Ng, Siang-Guan Teoh and Chen Wei	2537	Metal(II) complexes of (*N*,*N*-di-*N'*-methylacetamido)glycine derived from Mannich aminomethylation of bis(glycinato) metal(II), formaldehyde and acetamide
Zhong Ning Chen, **Wen Xia Tang,** Fang Ming Miao and Jing Ling Wang	2543	Magnetic properties and crystal structure of a 1D alternating chain copper(II) compound with bridging fumarate and *trans*-oxamidate ligands
A. Y. Nazarenko and E. B. Rusanov	2549	Synthesis and crystal structure of lead thiocyanate complexes with 18-crown-6 and two isomers of dicyclohexane-18-crown-6
L. Brunet, F. Mercier, L. Ricard and **F. Mathey**	2555	Ruthenium(II) complexes of 3,4-dimethylphosphacymantrene
Chi-Ming Che, Kung-Kai Cheung, Zao-Ying Li, Kwok-Yin Wong, Chih-Chieh Wang and Yu Wang	2563	X-ray crystal structure of [2,7,12,17-tetrapropylporphycenato] platinum(II). A comparison of nickel(II) and platinum(II) porphycene
T. E. Khalil, L. Labib, **M. F. Iskander** and L. S. Refaat	2569	Organotin(IV) complex with tridentate ligands—II. Synthesis and characterization of mono- and dimethyltin(IV) complexes with *N*-(2-pyridinylmethylene)benzoylhydrazine. The crystal and molecular structure of monomethyldichloro[*N*-(2-pyridinylmethylene)benzoylhydrazinate NNO(-1)]tin(IV)
		Communications
S. A. Cotton	2579	On the EPR spectra of iron(III) spin-equilibrium compounds
J. Dupont, O. L. Casagrande Jr, A. C. Aiub, J. Beck, M. Hörner and A. Bortoluzzi	2583	*Cis* and *trans* nucleophilic additions on C$\equiv$C bonds assisted by Pt(II) complexes. X-ray crystal structure of *trans*-{Pt[*cis*-(*o*-NC_5H_4) CH$=$C(Ph) (NEt_2)]Cl_2($HNEt_2$)}

Book Review

S. Cotton 2589 Cluster Chemistry. By G. González-Moraga

Announcement

I Annual Polyhedron Publication Award

NUMBER 18

iii Contributors to this issue

iv Deposition of crystallographic data

R. K. Ray and G. B. Kauffman 2591 Mixed ligand complexes—V. (Aminoacidato)bis(1-amidino-*O*-alkylurea)cobalt(III) salts

I. Lázár, **J. Emri,** B. Györi and Z. Kovács 2599 Synthesis of [amine(tert-butylisonitrile)dihydroboron(III)] cations via the antimony pentachloride complexes of amine-dihydrocyanoboranes. A new route to amine-carboxyboranes

K. B. Dillon, C. J. Drury and T. A. Straw 2605 Some phosphorus(III) and (V) compounds containing the 4-chlorophenyl group

Xin Wang, Xiao Min Zhang and Hai Xin Liu 2611 Synthesis, characterization and the crystal structure of binuclear *cis*-dioxo molybdenum(VI) complex of the Schiff base salicylaldehyde dihydrazide (SADH)

S. M. Kagwanja, **C. J. Jones,** J. P. Maher and **J. A. McCleverty** 2615 Formation of trimetallic complexes containing redox-active nitrosyl molybdenum tris(3,5-dimethylpyrazolyl)-borato groups. Schiff base compounds containing two Mo and one Cu centre

B. W. Tattershall and N. L. Kendall 2629 Phosphorus-rich phosphorus sulfide cage compounds; nuclear magnetic resonance evidence for compounds with P_5S_2 or P_6S skeletons

R. Das, K. K. Nanda, I. Paul, S. Baitalik and **K. Nag** 2639 Iso- and mixed-valent phenoxy bridged binuclear macrocyclic complexes of cobalt, iron and manganese

H. E. Toma and M. A. L. Olive 2647 Spectroelectrochemical and kinetic studies on the interaction of ruthenium-EDTA with a trinuclear ruthenium acetate cluster containing aminopyrazine ligands

N. Sumita Rao, D. D. Mishra, **R. C. Maurya** and N. Nageswara Rao 2653 Synthesis and characterisation of dinitrosylmolybdenum(0) Schiff base complexes derived from 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone

C. R. K. Rao, H. Aneetha, B. Srinivas, **P. S. Zacharias** and A. Ramachandraiah 2659 Catalytic oxidation of two-electron donors by dinuclear copper(II), nickel(II) and cobalt(II) complexes and epoxidation of olefins using iron(III) complexes

S. Sinha, P. K. Das and **B. K. Ghosh** 2665 Synthesis and characterization of bis(2,2′-bipyridine)(camphorquinone monoximato)ruthenium(II) perchlorate monohydrate

J. Chakravarty and **S. Bhattacharya** 2671 Synthesis, characterization, electron-transfer properties and reactivities of a group of ruthenium(II) complexes with $RuN_2P_2X_2$ (X = Cl, Br) coordination spheres

Shi-Hui Wu, Zong-Biao Ding and Xue-Jing Li 2679 A facile method for preparation of tetrahydrofuran complexes of lanthanide trichlorides

M. Jezowska-Bojczuk, H. Kozlowski, I. Sovago, Z. Kubica, B. Rzeszotarska and L. Smelka 2683 Unusual binding ability of α,β-dehydro-dipeptides towards metal ions

P. Chattopadhyay and **C. Sinha** 2689 Regioselective mercuration of 2-(methylthio)-N-(benzylidene) anilines

S. Aime, G. Digilio, R. Gobetto, P. Cecchi, G. Gioia Lobbia and M. Camalli 2695 Solution and solid-state NMR studies of $MeHg^{II}$ and $RSHg^{II}$ (R=Me, Et) complexes with pyrazolyl-containing ligands

Announcement

I Annual Polyhedron Publication Award

NUMBER 19

iii Contributors to this issue

iv Deposition of crystallographic data

C. W. Haigh 2703 Use of Pólya's theorem to enumerate the isomers of seven-coordinate complexes—II. Pentagonal bipyramidal geometry

D. Zeng, **M. J. Hampden-Smith,** T. M. Alam and A. L. Rheingold 2715 Synthesis and characterization of single-source molecular precursors to binary metal sulphides: bis(diethyldithiocarbamato) M(II)trialkylphosphine (M=Zn and Cd) adducts

R. L. Wells, S. S. Kher, R. A. Baldwin and P. S. White 2731 Synthesis and characterization of a neutral six-coordinate tris-adduct of an indium(III) trihalide. X-ray crystal structure of $InCl_3(THF)_3$

R. L. Wells, A. T. McPhail, J. A. Laske and P. S. White 2737 Synthesis and characterization of aluminium–phosphorus adducts: X-ray crystal structures of $Cl_3Al \cdot P(SiMe_3)_3 \cdot C_7H_8$ and $Br_3Al \cdot P(SiMe_3)_3 \cdot C_7H_8$

F. J. Arnaiz, R. Aguado, J. Sanz-Aparicio and M. Martinez-Ripoll 2745 Addition compounds of dichlorodioxomolybdenum(VI) from hydrochloric acid solutions of molybdenum trioxide. Crystal structure of dichlorodioxodiaquamolybdenum(VI) bis(2,5,8-trioxanonane)

Wai-Kwok Wong, Kwok-Keung Lai, Man-Sang Tse, Man-Chung Tse, Jing-Xing Gao, **Wing-Tak Wong** and S. Chan 2751 Reactivity of $Ru(OAc)_2(Ph_3P)_2$ toward chelating diphosphine ligands. X-ray crystal structures of *fac*-$Ru(OAc)_2(Ph_3P)$(dppm) and *trans*-$Ru(OAc)_2(P_2N_2H_4)$

Xiao-Zeng You, Rengen Xiong, Jun-Xiu Dong and Xiao-Yin Huang 2763 Crystal structure and physical properties of the adduct of bis(*o*,*o*′-dibutyldithiophosphato) nickel(II) with 4-aminopyridine

I. Labadi, L. Parkanyi, R. Grobelny and J. Mrozinski 2767 Redetermination of crystal structure, EPR and magnetic data of tris(1,2-ethanediol) copper(II) sulphate

S. S. Dhingra and **R. C. Haushalter** 2775 An adamantane-like $[Ge_4Te_{10}]^{4-}$ anion: synthesis and single crystal structure determination of $(Et_4N)_4[Ge_4Te_{10}]$

V. I. Ovcharenko, K. E. Vostrikova, A. V. Podoplelov, R. Z. Sagdeev, G. V. Romanenko and V. N. Ikorskii 2781 The synthesis and magnetic properties of two different water-containing layered polymeric Ni^{II} complexes with a 3-imidazoline nitroxide. The low efficiency of exchange interactions through the OH-bridges of water molecules

A. J. Blake, R. L. Dorse, J. M. Rawson and **R. E. P. Winpenny** 2793 A new one-dimensional mixed-valence copper polymer: the synthesis and characterization of $[Cu_3Br_4(DMF)_2(H_2O)]_n$

W. Hirpo, A. C. Sutorik, S. Dhingra and **M. G. Kanatzidis** 2797 Synthesis and characterization of indium thiolates: structures of $[Ph_4P][In(SBu^t)_4] \cdot CH_3OH$ and $[Ph_4P][In(SCH_2CH_2S)_2]$

N. Wolf and **D. M. Roundhill** 2801 Long chain alkyl and choline substituted xanthates as extractants for cadmium(II)

R. Cea-Olivares, O. Jimenez Sandoval, G. Espinosa-Perez and C. Silvestru — 2809 — New organotin(IV) derivatives of 1-phenyl-1*H*-tetrazole-5-thiol. Crystal and molecular structure of $^{1}_{\infty}[Bz_3SnSCN_4Ph]$, a polymer built through secondary intermolecular Sn ··· N bonds

Announcement

I — Annual Polyhedron Publication Award

NUMBER 20

iii — Contributors to this issue

iv — Deposition of crystallographic data

P. Román, J. I. Beitia, A. Luque and C. Guzmán-Miralles — 2819 — 4-Methylpyridinium salts of planar nickel(II), palladium(II) and platinum(II), 1,2-dithiooxalato-*S,S′* complexes. Preparation, chemical characterization and thermal behaviour

S. Thambidurai, S. Abdul Samath, K. Jeyasubramanian and **S. K. Ramalingam** — 2825 — Selective cyanation/bromination of coordinated *β*-diketones using CNBr as a new reagent

W. M. Cleaver, **A. R. Barron,** A. R. McGufey and **S. G. Bott** — 2831 — Alcoholysis of tri-*tert*-butylgallium: synthesis and structural characterization of $[(Bu^t)_2Ga(\mu\text{-}OR)]_2$

J. Podlaha, J. Podlahová, P. Štěpnička and M. Rieder — 2847 — Change of penta- to hexacoordination in isomorphous complexes on substituting zinc(II) by cobalt(II): crystal structure of hexaaquacobalt(II) bis(3,3′,3″-phosphinidynetripropionato)-dicobaltate(II,II) hexahydrate

A. A. H. Saeed, A. H. Abed and R. T. Mehdi — 2855 — Spectrophotometric studies on the reactions of bromine, iodine and DDQ with some diaryl ditelluride compounds

Y. Y. Lim, W. Chen, L. L. Tan, X. Z. You and T. M. Yao — 2861 — X-ray crystal, magnetic and spectroscopic studies of dicopper mixed-ligand complexes containing bridged bis(*β*-diketonate) and tetramethylethylenediamine ligands

Suobo Zhang, Xiuli Zhuang, Gecheng Wei, **Wenqi Chen** and Juzheng Liu — 2867 — Syntheses of $(C_4H_7OCH_2C_5H_4)_2LnCl$ (Ln=Nd, Gd, Dy, Yb) and crystal structure of $(C_4H_7OCH_2C_5H_4)_2DyCl$

J. S. Casas, A. Castiñeiras, **I. Haiduc,** A. Sánchez, J. Sordo and E. M. Vázquez-López — 2873 — Crystal and molecular structure of spirobicyclic bis(tetraphenyldithioimidodiphosphinato)lead(II), $[Pb\{(SPPh_2)_2N\}_2]$, containing a new inorganic (carbon-free) PbS_2P_2N chelate ring and $Pb(\eta^6\text{-}C_6H_5)$ interactions

Cheng-Yong Jin, Shu-Lin Ma and Dai-Zheng Liao — 2881 — Synthesis and magnetic properties of *μ*-oxamido copper(II) binuclear complexes

Yun-Huin Lin, Chu-Chieh Lin, **Jyh-Horung Chen,** Weng-Feng Zeng and Shin-Shin Wang — 2887 — Synthesis and molecular structure of di(1,3-propanediolato)(tetraphenylporphyrinato) phosphorus(V) chloride: $[P(tpp)(OCH_2CH_2CH_2OH)_2]^+Cl^-$

H.-C. Böttcher, H. Hartung, A. Krug and B. Walther — 2893 — X-ray crystal structures of $PPN[Fe_2(\mu\text{-}CO)(CO)_6(\mu\text{-}PBu^t_2)]$ [PPN=$(PPh_3)_2N^+$] and $[Fe_2(\mu\text{-}CO)(CO)_6(\mu\text{-}H)(\mu\text{-}PBu^t_2)]$ and structural comparison with the cluster $[Fe_2\{\mu\text{-}Ag(PPh_3)\}(\mu\text{-}CO)(CO)_6(\mu\text{-}PBu^t_2)]$

A. A. Danopoulos, **G. Wilkinson,** T. K. N. Sweet and **M. B. Hursthouse** — 2899 — A new type of iminophosphine ligand from interaction of $Li_2M(NBu^t)_4$, M=W, Mo and PX_3, X=Cl, Br. Crystal structures of $W(NBu^t)Br_2[P_2(NBu^t)_3]$ and $W(NBu^t)Cl(SC_6F_5)[P_2(NBu^t)_3]$

E. W. Abel, P. J. Heard, **K. G. Orrell** and V. Šik — 2907 — A dynamic NMR study of 1,2-metallotropic shifts in trimethylplatinum(IV) halide complexes of 3-methylpyridazine

P. K. Baker, D. J. Muldoon, **A. J. Lavery** and A. Shawcross — 2915 — Dibromoalkyne complexes of tungsten(II)

D. L. Davies, J. Fawcett, J. Neild and D. R. Russell — 2923 — Metal complexes of functionalized phosphines—III. Synthesis and characterization of 2-diphenylphosphinoethylamine complexes with iron and ruthenium. Crystal structure of $[(\eta^5\text{-}C_5H_5)Ru(CO)(Ph_2PCH_2CH_2NHBu^t)]Cl$

Communication

A. V. Virovets, N. V. Podberezskaya, **L. G. Lavrenova** and G. A. Bikzhanova — 2929 — Synthesis and X-ray crystal structure of new complex *trans*-dinitrodiaqua-bis(1-phenyltetrazole) copper(II)

Announcement

I — Annual Polyhedron Publication Award

NUMBER 21

iii — Contributors to this issue

iv — Deposition of crystallographic data

C. A. Crawford, E. F. Day, W. E. Streib, J. C. Huffman and **G. Christou** — 2933 — One-dimensional polymerization of $M_2(OAc)_4$ (M=Cu, Rh) units using 2-(aminomethyl)pyridine: preparation and characterization of $[Rh_2(OAc)_4(amp)]_n$ and $[Cu_4(OAc)_8(amp)_2]_n$

R. R. Mohanty, K. C. Rout, S. Jena and **K. C. Dash** — 2945 — Dioxouranium(VI) and thorium(IV) complexes of a bidentate chelating biheterocycle, 1,1′-dimethyl 2,2′-biimidazole

M. Shakir, P. Shahul Hameed, F. Firdaus and S. P. Varkey — 2953 — Synthesis and characterization of organotin(IV) chlorosulphates, $Li_2[R_2Sn(SO_3Cl)_4]$, $Ba[R_2Sn(SO_3Cl)_4]$ and $Sn[R_2Sn(SO_3Cl)_4]$ (R=CH_3, C_2H_5, C_3H_7, C_4H_9)

Qingri Jin, Xiaoqing Wang, **Tianzhu Jin,** Guangxian Xu and Shiwei Zhang — 2957 — Preparation and crystal structure of a new erbium complex with glutamic acid: $[Er_2(Glu)_2(NO_3)_2(H_2O)_4](NO_3)_2 \cdot 5H_2O$

Wing-Yiu Yu, Wing-Chi Cheng, **Chi-Ming Che** and Yu Wang — 2963 — Synthesis, redox properties and reactivities of ruthenium(II) complexes of 1,1′-biisoquinoline (BIQN) and X-ray crystal structure of $[Ru^{II}(terpy)(BIQN)(Cl)]ClO_4$ (terpy=2,2′:6′,2″-terpyridine)

M. L. H. Green, P. C. McGowan and X. Morise — 2971 — A study of methylcarboxy-η-cyclopentadienyl derivatives of tungsten

Jinsong Ren, Jingwen Guan, Songchun Jin and **Qi Shen** — 2979 — Synthesis and X-ray structure of an organolanthanum complex $[(Bu^tCp)_3LaClLi(THF)_3]$

M. Geißler and **R. van Eldik** — 2983 — Product identification and kinetic data for the reaction of S(IV) with N(III) oxoacids in aqueous solution in the absence and presence of metal ions

K. Aparna, **S. S. Krishnamurthy,** M. Nethaji and P. Balaram — 2993 — Amino acid–lanthanide interactions. Crystal structures of lanthanide complexes of α-amino isobutyric acid (Aib), $[La_2(Aib)_4(H_2O)_8](ClO_4)_6$ and $[Pr_2(Aib)_4(H_2O)_8]Cl_6 \cdot H_2O$

N. Ghatak and **S. Bhattacharya** 2999 Ruthenium picolinates. Synthesis, characterization and reactivities of some picolinate complexes of ruthenium(II)

V. M. Leovac, L. S. Jovanović, V. I. Češljević, L. J. Bjelica, V. B. Arion and N. V. Gerbeleu 3005 Transition metal complexes with the thiosemicarbazide-based ligands—XXIII. Synthesis, physicochemical properties and voltammetric characterization of iron(III) complexes with terdentate and quadridentate thiosemicarbazide derivatives

M. A. Abou Taleb, L. Labib and **M. F. Iskander** 3015 Reactivity of some coordinated ligands containing sulphur towards nucleophilic substitution reactions—III. Reaction of [(1-phenylethanediylidine bis-S-methylhydrazinecarbodithioate) NNS′S′(-2)]nickel(II) with primary and secondary amines and cyclization of the hydrazine derivative with β-diketones

Communications

Kaluo Tang, Tianbing Xia, Xianglin Jin and Youqi Tang 3023 Synthesis and X-ray crystal structure of hexakis(μ-(*p*-tert-butylthiophenolato))-mono(*p*-tert-butylthiophenolato) trichlorotetracadmate(II) dianion

Guanyang Lin and **Wing-Tak Wong** 3027 Synthesis and structural characterization of sodium (diphenylphosphino)cyclopentadienyl and derived heterobimetallic complex $[\{(C_6H_5)_2P(\eta^5\text{-}C_5H_4)\}_2Yb(\mu\text{-}Cl)_2Na(C_4H_{10}O_2)_2]$

Jeou-Jen Fuh, Suh-Shing Tang, Yun-Huin Lin, **Jyh-Horun Chen,** Tung-Sheng Liu, Shin-Shin Wang and Jing-Chie Lin 3031 Synthesis, characterization and dynamical NMR studies of meso-tetra(4-pyridyl)porphyrinatothallium(III) acetate: Tl(tpyp)(OAc)

K. Mochida, M. Shimoda, H. Kurosu and A. Kojima 3039 First ionization potentials of oligogermanes and polygermanes by a very simple technique, ultraviolet photoelectron spectroscopy

Announcement

I Annual Polyhedron Publication Award

NUMBER 22

iii Contributors to this issue

iv Deposition of crystallographic data

E. Norkus and **A. Vaškelis** 3041 Determination of tetrahydroxycuprate and copper(II)–NTA complex stability constants by polarographic and spectrophotometric methods

M. Di Vaira and **P. Stoppioni** 3045 Formation of the novel P_6 chain ligand from two P_3 rings bound to metal ligand systems

D. L. Reger, Yan Ding, A. L. Rheingold and R. L. Ostrander 3053 Reactions of $\{(C_5H_5)Co[P(O)(OC_2H_5)_2]_3\}^-$ with MCl_3 and $M(CH_3)Cl_2$ (M=Ga, In). Crystal and molecular structure of $[\{(C_5H_5)Co[P(O)(OC_2H_5)_2]_3\}_2Ga]Ga(CH_3)Cl_3$

D. L. Reger and S. S. Mason 3059 Solution state ^{113}Cd NMR investigation of an extensive series of $[HB(3,5\text{-}Me_2pz)_3]Cd(alkyl)$ complexes

Z. A. Siddiqi and A. A. Khan 3063 Diisothiocyanatophenylphosphine—$C_6H_5P(NCS)_2$—a versatile chelating agent towards transition metal ions

A. Yasukawa, H. Takase, K. Kandori and T. Ishikawa 3071 Preparation of calcium hydroxyapatite using amides

A. Syamala and **A. R. Chakravarty** 3079 Synthesis, X-ray structure and redox properties of $[Ru_2(\mu\text{-}O)(\mu\text{-}O_2CMe)_2(Me_2NCH_2CH_2NH_2)_2(PPh_3)_2](ClO_4)_2$

Xiao-Ming Chen, Qin-Ying Deng, Guiyangsheng Wang and Yonh-Jin Xu	3085	The first μ_3-carbonato-bridged trinuclear zinc(II) complex containing metal atoms in two different coordination environments
Yun-Huin Lin, Ming-Torng Sheu, Chu-Chieh Lin, **Jyh-Horung Chen** and Shin-Shin Wang	3091	Molecular structure of dimethoxo(tetraphenylporphyrinato) phosphorus(V) chloride and one-step hydrolysis of its derivative hydroxomethoxo(tetraphenylporphyrinato)phosphorus(V) ion: $[P(tpp)(OMe)(OH)]^+$
W. Henderson, B. K. Nicholson and A. G. Oliver	3099	N-Cyanoacetylurethane complexes of palladium(II), and the X-ray crystal structure of *trans*-$[PdCl\{EtO_2CNC(O)CH_2CN\}(PPh_3)_2]$
G. Kura and T. Ueno	3105	Solid phase condensation reaction of lead *cyclo*-tetraphosphate
Y. S. Sharma, H. N. Pandey and **P. Mathur**	3111	Monomeric and dimeric copper(II) complexes of a redox active Schiff base ligand bis(2,5-dihydroxyacetophenone) ethylenediamine
P. Aslanidis, S. K. Hadjikakou, **P. Karagiannidis,** B. Kojic-Prodic and M. Luic	3119	Preparation and spectral studies of dinuclear mixed-ligand copper(I) complexes. The crystal structure of bis[μ-S(pyridine-2-thione)(tmtp)copper(I) bromide]
S. S. Massoud	3127	Spectroscopic characterization for the geometrical isomers of azido–amine–cobalt(III) complexes
R. C. Bott, D. S. Sagatys, **G. Smith,** K. A. Byriel and C. H. L. Kennard	3135	Univalent metal ion α-hydroxy acid interactions: part 9. Preparation and crystal structures of lithium hydrogen (+)-tartrate monohydrate, potassium (+)-tartrate hemihydrate and thallium(I) (+)-tartrate
		Communications
B. El-Knidi, **R. D. Gillard** and P. S. Jarrett	3143	An unusual dismutation
K. D. Demadis, S.-J. Chen and **D. Coucouvanis**	3147	The synthesis, and properties of Fe/Mo/S clusters with $MoFe_3S_4$ cubane subunits, Mo bound bidentate oxalate ligands and terminal or bridging cyanide ligands. Structural characterization of $(Et_4N)_3[(C_2O_4)(CN)MoFe_3S_4Cl_3]$ and $(Et_4N)_5\{[(C_2O_4)MoFe_3S_4Cl_2]_2(\mu\text{-}CN)(\mu\text{-}S)\}$
		Announcement
	I	Annual Polyhedron Publication Award

NUMBER 23

	iii	Contributors to this issue
	iv	Deposition of crystallographic data
M. McCann and K. Maddock	3153	Synthesis of isopolyoxomolybdate(VI) salts comprising asymmetric organic bases
C. Silvestru, I. Haiduc, R. Cea-Olivares and A. Zimbron	3159	Diorganotin(IV) derivatives of tetraphenylimidodiphosphinic acid. Crystal and molecular structure of n-$Bu_2Sn[(OPPh_2)_2N]_2$, a *trans*-octahedral spiro-bicyclic compound
Liangbing Gan, Lianbin Xu, Chuping Luo, **Chunhui Huang,** S. Umetani and M. Matsui	3167	Synthesis and characterization of tris(3-phenyl-4-benzoyl-5-isoxazolone)(1,10-phenanthroline)europium
J. V. Brencic, I. Leban and B. Modec	3171	Syntheses and characterization of *cis*-, *trans*-$M^I[MoCl_4py_2]$ ($M^I = pyH^+$, Rb^+, Cs^+, $N(CH_3)_4^+$, $NH_2(CH_3)_2^+$, PPh_4^+ and $AsPh_4^+$; py = pyridine) and the crystal structure of *cis*-$Rb[MoCl_4py_2]\cdot H_2O$

J. Costa Pessoa, S. M. Luz, I. Cavaco and **R. D. Gillard** 3177 Oxovanadium(IV) and amino acids—VII. The system L-histidine + VO^{2+}; a self-consistent potentiometric and spectroscopic study

A. A. Khan and **K. Iftikhar** 3199 Mixed-ligand lanthanide complexes—VII. Complexes of 1,10-phenanthroline and thiocyanate

E. G. Bakalbassis, J. Mrozinski, S. P. Perlepes, **N. Hadjiliadis,** F. Lianza and A. Albinati 3209 2-(2′-Pyridyl)quinoxaline (L) as a bidentate ligand: crystal structure, magnetic properties and quantum chemical study of $[Cu_2Cl_4L_2]$

G. Batra and **P. Mathur** 3219 ^1H and ^{13}C magnetic resonance investigation of nickel(II) complexes of bis-benzimidazolyl ligands

H. C. Aspinall and M. R. Tillotson 3229 Four-coordinate lanthanide di-isopropylamides: [Li(THF)Ln($N^iPr_2)_4$] (Ln=La, Y, Yb)

Li-Cheng Song, Jin-Yu Shen, Ji-Quan Wang, Qing-Mei Hu, Ru-Ji Wang and Hong-Gen Wang 3235 Synthesis of group 6 metal triply bonded dimers [η^5-$RC_5H_4(CO)_2M]_2$ and their reactions with $Co_2(CO)_8$. X-ray molecular structure of η^5-$MeCOC_5H_4(CO)_3MoCo(CO)_4$

J. S. Field, **R. J. Haines,** J. Sundermeyer, A. Wood and S. F. Woollam 3243 Oxidation of diphosphazane-bridged derivatives of diruthenium nonacarbonyl by silver(I) carboxylates

Communications

Soh-Yun Siah, **Pak-Hing Leung** and **K. F. Mok** 3253 Palladium(II) and platinum(II) complexes with a novel P—S(O)—P tridentate ligand

F. J. Arnaiz, R. Aguado and J. M. Martinez de Ilarduya 3257 Dioxomolybdenum(VI) halides as oxotransfer catalysts

J. Parr, A. M. Z. Slawin, J. D. Woollins and D. J. Williams 3261 The preparation and X-ray structure of $K_2[Ge(cat)_3]\cdot 3H_2O\cdot$ 2EtOH. A new potassium-aryl linked molecular array

Announcement

I Annual Polyhedron Publication Award

NUMBER 24

iii Contributors to this issue

iv Deposition of crystallographic data

P. K. Baker and K. R. Flower 3265 The synthesis and spectroscopic properties of some but-2-yne tungsten complexes of the type [WIX(CO){$Ph_2P(CH_2)PPh_2$} (η^2-MeC_2Me)] (X=Cl, Br, I, NO_2, NO_3, NCS or OH)

K. Petrov, E. Mirtcheva, J. L. Martin de Vidales, R. Rojas and O. Garcia-Martinez 3269 Preparation and X-ray diffraction characterization of the kambaldaite-like sodium cobalt carbonate hydroxide hydrate, $Na_2Co_8(CO_3)_6(OH)_6\cdot 6H_2O$

A. Mohamadou, I. Déchamps-Olivier and **J.-P. Barbier** 3277 Synthesis of N-morpholine or N,N-diethyl, N′-monosubstituted benzoyl thiourea copper complexes: characterization and electrochemical investigations

A. J. Deeming, R. Vaish, A. J. Arce and Y. De Sanctis 3285 Oxidative addition of 2,2′-dipyridyl disulphide to the cluster $[Os_3(CO)_{10}(MeCN)_2]$

M. M. Khalil, A. H. H. Elghandour, M. Mostafa and **M. M. Shoukry** 3295 Metal chelates of some 1-substituted-3-thiazole-2-ylthioureas

C. L. Watkins, L. K. Krannich, C. J. Thomas and D. Srivastava 3299 The reactivity of dimethylaluminum hydride with the amino-arsines Me_2AsNMe_2, $MeAs(NMe_2)_2$, and $As(NMe_2)_3$

M. Cano, J. A. Campo, M. Panizo, J. Tornero and N. Menéndez — 3309 — Heterobimetallic Mo—Sn complexes. Reactions of $[Mo(CO)_3(CH_3CN)_2(Cl)(SnRCl_2)]$ (R=Me, Ph) with $P(4\text{-}XC_6H_4)_3$ (X= Cl, F, H, Me, MeO)

Xiaojing Li, **Lan Yan,** Hui Wanyan, Xiangming Li and Rudong Yang — 3317 — Investigation on lanthanide binuclear complexes of 1,5-bis-(1′-phenyl-3′-methyl-5′-pyrazolone-4′)-1,5-pentanedione and 2,2′-bipyridine

Communications

H. Vincent, F. Labrize and **L. G. Hubert-Pfalzgraf** — 3323 — Synthesis and molecular structure of $Ba_5(\mu_5\text{-}OH)[\mu_3\text{-}OCH(CF_3)_2]_4[\mu_2\text{-}OCH(CF_3)_2]_4[OCH(CF_3)_2](THF)_4(H_2O)\cdot THF$: a source of barium fluoride

Xiao-Ming Chen, Zhi-Tao Xu and T. C. W. Mak — 3329 — Perturbation of out-of-plane hydrogen bonding on carboxylato geometry. Structure of $[Zn(bpy)_2(MeCO_2)](ClO_4)\cdot H_2O$

De-Dong Wu and **T. C. W. Mak** — 3333 — Mercury(II) halide adducts of an olefinic double betaine: $[\{Hg_2L_2X_4\cdot 6HgX_2\}_n]$ [X=Cl, Br; L=*cis*-$(p\text{-}Me_2NC_5H_4N^+)_2C_2(COO^-)_2$]

D. L. Hughes, S. K. Ibrahim, **C. J. Pickett,** G. Querne, A. Laouenan, J. Talarmin, A. Queiros and A. Fonseca — 3341 — On carboxylate as a leaving group at the active site of Mo nitrogenase: electrochemical reactions of some Mo and W carboxylates, formation of mono-, di- and tri-hydrides and the detection of an $MoH_2(N_2)$ intermediate

Announcement

I — Annual Polyhedron Publication Award

AUTHOR INDEX

Abdul Samath, S. 2825
Abdul Malik, K. M. 181, 2501
Abed, A. H. 2855
Abel, E. W. 2501, 2907
Abou Taleb, M. A. 3015
Abrahams, I. 513
Agarwal, R. K. 957
Agrawal, R. P. 2217
Aguado, R. 2745, 3257
Ahmed, K. J. 919
Ahmed, S. 23
Aime, S. 2695
Airoldi, C. 27
Aiub, A. C. 2583
Akamatsu, T. 2205, 2251
Akashi, H. 1091
Akiyama, S. 2495
Akrivos, P. D. 753
Alam, T. M. 2715
Alberico, E. 1763
Albinati, A. 3209
Allen, J. L. 1301
Aly, M. M. 1907
Ama, T. 1963
Ameerunisha, S. 2327
Amodio, C. A. 2197
Anbalagan, V. 291
Aneetha, H. 2659
Angeles Monge, M. 1669
Angelov, V. 2447
Aparna, K. 2993
Aqra, F. M. A. M. 247
Arancibia, A. 117
Arancibia, V. M. 497
Araújo, de M. A. B. 1015
Araujo, M. P. 689
Arce, A. J. 3285
Archer, R. D. 2043
Arion, V. B. 3005
Arnaiz, F. J. 2745, 3257
Arora, K. 957
Arriortua, M. I. 357
Aslanidis, P. 3119
Aspinall, H. C. 3229
Azuma, N. 1715, 2477
Azzem, M. A. 1781
Babonneau, F. 1123
Baijal, J. S. 1005
Bailar, J. C., Jr. 1989, 1997
Baitalik, S. 2639
Bakalbassis, E. G. 3209
Baker, L.-J. 251
Baker, P. K. 417, 525, 2915, 3265
Baker, P. K. 39
Balaram, P. 2993
Baldwin, R. A. 2731
Ballester, L. 2277
Bandyopadhyay, D. 999
Banerjea, D. 1981
Banerjee, R. 53
Bao-Hui Ye 2185
Baran, E. J. 1859
Barbier, J.-P. 1363, 3277
Bardwell, D. A. 2291
Barnes, C. L. 701
Barnes, D. L. 743, 1267
Barron, A. R. 1315, 2831
Basallote, M. G. 1853
Bascunan, M. 1101
Basson, S. S. 599, 717
Basu Baul, T. S. 2217
Batheja, R. 777
Batista, A. A. 689
Batra, G. 3219
Battacharya, S. 451
Beck, J. 2583
Beitia, J. I. 2311, 2819
Bekkum van, H. 1825
Bell, W. 1253
Benedetti, A. V. 133
Benetollo, F. 573
Benliang Zhou 1057
Bernal, I. 165, 463
Bertrán, J. F. 1619
Beuter, M. 365
Bharadwaj, P. K. 2387
Bhattacharjee, M. 695
Bhattacharya, S. 2671, 2999
Bhattacharyya, P. 261
Bi Lihua 2421
Bihua Li 1105

Birdsall, W. J. 2055
Bjelica, L. J. 3005
Blake, A. J. 187, 2135, 2793
Bligh, S. W. A. 1937
Bloor, D. 2107
Boag, N. M. 2525
Bodini, M. E. 497
Boghosian, S. 1639
Bois, C. 2163
Bombieri, G. 573
Bonnetot, B. 2211
Borges, da. S. S. 1015
Bortoluzzi, A. 2583
Botao Zhuang 125
Bott, R. C. 3135
Bott, S. G. 2831
Böttcher, H.-C. 2893
Bowsher, D. K. 227
Boys, D. 1101
Bradley, D. C. 1, 7, 1111
Brady, F. 513
Bräu, E. 365
Bravo, P. E. 497
Brencic, J. V. 3171
Breneman, G. L. 267, 339
Breunig, H. J. 2471, 2531
Brewer, S. A. 749
Breza, M. 103, 723
Brian, P. T. 1453
Brisdon, A. K. 749
Brockner, W. 579
Brown, D. A. 2265
Brunet, L. 2555
Budzichowski, T. A. 2035
Bühl, M. 1453
Buhro, W. E. 1131
Bukietyńska, K. 109, 113, 1069
Bukowska-Strzyżewska, M. 1689
Burgess, J. 23
Busuego, L. N. 339
Byers, P. 345, 349
Byriel, K. A. 2425, 3135

Cai, J. 165
Caldeira, M. M. 1825
Calogero, S. 87, 2173
Camalli, M. 1371, 2695
Campo, J. A. 1669, 1835, 2463, 3309
Cano, M. 1563, 1575, 1669, 1835, 2463, 3309
Cao Xueqiang 2489
Capparelli, A. L. 1411
Carballo, R. 435
Cardin, C. 221, 835, 2359
Carmalt, C. J. 1655
Caruso, J. 1311
Casagrande, O. L. Jr. 2583
Casas, J. S. 1805, 2873
Castiñeiras, A. 435, 1805, 2873
Castro, R. 273
Cava, M. P. 675
Cavaco, I. 3177
Cea-Olivares, R. 547, 2809, 3159
Cecchi, P. 87, 1553, 2173, 2695
Češljević, V. I. 3005
Cetrullo, J. 463
Chagas, A. P. 27
Chakraborty, P. 683
Chakravarty, A. 999, 1811, 3079
Chakravarty, J. 2671
Chakravorti, M. C. 695
Champness, N. R. 881
Chan, S. 2751
Chan-Chen Su 825
Chandra, S. K. 683
Chaode Sun 1483
Chattopadhyay, P. 2689
Chattopadhyay, S. 999, 1981
Chaudhuri, M. K. 1343
Che Deji 57
Chehhal, H. 591
Chen-Bor Li 825
Chen Dongli 57
Chen, S.-J. 3147
Chen, W. 2379, 2861
Chen Wei 2537
Chen Yaguang 2421
Chen Yun-Ti 759
Cheng Gang Chen 873
Cheng, M. C. 2259
Cheng Peng 1801

Cheng-Yong Jin 2881
Chew-Hee Ng 2537
Chi-Ming Che 771, 887, 2073, 2563, 2963
Chih-Chieh Wang 2563
Chikate, R. 395
Chisholm, M. H. 1109, 2035
Choi, N. 513, 847
Chorak, R. F. 69
Choudhury, S. 1063
Christou, G. 2933
Chu-Chieh Lin 2887, 3091
Chudzynska, H. 1, 7
Chun-Wan Liu 1841
Chung-Kwong Poon 771
Chunhui Huang 987, 3167
Chunji Niu 2193
Chunying Duan 385
Chuping Luo 3167
Cindrić, M. 2271
Cingolani, A. 939
Clark, T. 175
Clearfield, A. 1291
Cleaver, W. M. 2831
Clemente, J. M. 261
Cockerton, B. R. 1945, 2085
Coe, B. J. 2107, 2117
Coelho, A. L. 1015
Colacio, E. 203
Colapietro, M. 939
Cole-Hamilton, D. J. 1253
Coleman, A. P. 1277, 2301
Comrie, A. G. 193
Conole, G. 2455
Contreras, R. 1101
Convery, M. 221, 835, 2359
Cortes, R. 357
Costa Pessoa, J. 3177
Cotton, F. A. 807, 1337
Cotton, S. 1659, 2579, 2589
Coucouvanis, D. 3147
Coutsolelos, A. G. 647, 2367
Cowley, A. H. 1149
Cramer, R. E. 1045
Crawford, C. A. 2933
Cronin, J. F. 2359
Crossley, J. G. 2291
Curley, J. F. 919

Daeid, N. N. 1495
Dai Zheng Liao 99, 951, 1647, 1701, 2881
Dance, I G. 409
Daniele, S. 927
Daniels, L. M. 815
Danopoulos, A. A. 2899
Daphnomili, D. 2367
Daran, J.-C. 927
Das, P. K. 77, , 2665
Das, R. 2639
Dash, K. C. 559, 2945
Davey, R. J. 1683
Davies, D. L. 2923
Davies, N. A. 19
Day, E. F. 2933
De Sanctis, Y. 3285
De-Dong Wu 3333
Deacon, G. B. 1277, 2301
Deb, A. K. 1063
Déchamps-Olivier, I. 1363
Deeming, A. J. 1945, 2085, 3285
Degryarev, S. P. 505
Dejian Zhou 987
Demadis, K. D. 3147
Demertzis, M. 1917
Denning, R. G. 1875, 2337
Deshayes, L. 1725
Desseyn, H. O. 1095
Dessi, A. 1763
Devereux, M. 221, 2359
Dey, K. 2049
Dhingra, S. 2775, 2797
Di Vaira, M. 3045
Dia-Zheng Liao 475
Diamantopoulou, E. 1593
Diaz, C. 117
Dickson, R. S. 1277, 2301
Digilio, G. 2695
Dillon, K. B. 19, 2605
Doedens, R. J. 395
Dominguez-Vera, J. M. 203
Dominiak-Dzik, G. 1069

Domopoulou, A. 1917
Dongmok Whang 1887
Dorse, R. L. 2793
Dossett, S. J. 1773
Dou Man Jin 951
Downs, A. J. 2401
Dräger, M. 365
Drago, R. S. 2017
Drake, S. R. 181
Drew, M. G. B. 345, 349, 1631
Drozdov, A. A. 1445, 2459
Drury, C. J. 2605
Du Li 1035
Du Sinlin 2489
Dubois, L. H. 1329
Duesler, E. N. 609
Dunbar, K. R. 727
Dupont, J. 2583
Duque, J. 479
Dutt, P. 957
Dutta, S. 1811
Dzięgielewski, J. O. 241

Easom, K. A. 1197
Ebert, K. H. 2471, 2531
Edelmann, F. T. 539, 547
Eilerts, N. W. 743, 1267
Einaga, H. 1523, 2343
Einholz, W. 2211
El-Bahnasawy, R. M. 1781
El-Knidi, B. 3143
El-Nakat, J. H. 409
El-Saied, F. A. 1781
El-Sawaf, A. K. 1781
Eldik, R. van 2983
Elghandour, A. H. H. 3295
Ellison, I. J. 1351
Ellner, A. 365
Emri, J. 2353, 2599
Escandar, G. M. 143, 909
Espinosa-Perez, G. 2809
Etcheverry, S. B. 1859

Fackler, J. P. Jr 1705
Falke, R. 365
Fallon, G. D. 1277
Fan, M. 1225
Fang Ming Miao 2543
Faraglia, G. 659
Farkas, E. 1495
Farrugia, L. J. 1655
Fawcett, J. 2923
Fedotov, M. A. 505
Fernández-Bertrán, J. 479
Field, J. S. 3243
Finch, A. 1481
Fiol, J. J. 2513
Firdaus, F. 2319, 2953
Fisher, K. J. 409
Fitzmaurice, J. C. 235
Flower, K. R. 3265
Fonseca, A. 3341
Ford, A. 635
Forder, R. J. 2129
Frange, B. 2211
Friedl, J. 87
Frutos, A. 909
Fujii, C. 933
Fukazawa, M. 1609
Fung-E Hong 403
Funk, E. H. 69

Gaizer, F. 855
Galisteo, D. 203
Ganguly, S. 695
Garcia-Jaca, J. 357
Garcia-Martinez, O. 3269
Garcia-Vazquez, J. A. 273, 1735
Garzon, G. 1705
Gascoyne, J. M. 209
Gates, P. N. 1481
Gdaniec, M. 753
Gecheng Wei 1482, 1927, 2867
Geiβler, M. 2983
Gene-Hsiang Lee 2443
Geng-Lin Wang 99, 475, 1647
George, C.F. 709
Gerard, C. 591
Gerbeleu, N. V. 3005
Ghatak, N. 2999
Ghosh, B. K. 77, 1817, 2665
Gil, V. M. S. 1825

Gilbert, T. R. 1315
Gilje, J. W. 539, 1045
Gillard, R. D. 1351, 3143, 3177
Ginn, V. C. 1501
Gioia Lobbia, G. 87, 2173, 2695
Giolando, D. M. 1415
Giordano, G. 2507
Gladfelter, W. L. 1159
Gobetto, R. 2695
Goher, M. A. S. 2141, 2149
Gök, Y. 1793
Golab, St. 1069
Gomez, C. 1735
Gonzalez, E. B. 1495
González-Vílchez, F. 1853
Goodby, A. J. 2525
Goswami, S. 1063
Gould, R. O. 187
Gowenlock, B. G. 675, 1371
Granifo, J. 713
Grant, C. M. 187
Gray, G. M. 227
Green, M. L. H. 2971
Greiner, G. T. 267
Grobelny, R. 2767
Grzybek, R. 241
Guang Wang 1057
Guang-Ming Yang 1701
Guangxian Xu 987, 2333, 2957, 3027
Gui-Qing Huang 1587
Guilhon, F. 2211
Guisheng Li 1105
Guiyangsheng Wang 3085
Gutierrez, A. 2277
Gutiérrez-Puebla, E. 1669, 2277
Guzmán-Miralles, C. 2311, 2819
Györi, B. 2353, 2599

Hadjikakou, S. K. 753, 3119
Hadjiliadis, N. 3209
Hadjipanayis, G. C. 1197
Haefner, S. C. 727
Hai Xin Liu 2611
Haiduc, I. 547, 1805, 2531, 2873, 3159
Haigh, C. W. 417, 2703
Haihong Ni 2439
Hails, J. E. 1253
Haines, R. J. 3243
Håkansson, M. 539
Hall, J. R. 1039
Hall, J. van 2387
Hall, L. A. 45
Hameed, P. S. 1355, 2319
Hamidi, M. E. M. 1787
Hampden-Smith, M. J. 609, 1109, 2715
Han-Qing Wang 389, 851
Handa, M. 159
Hanusa, T. P. 2417
Harding, C. T. 1937
Harris, R. K. 19
Hartung, H. 2893
Hattikudur Manohar 307
Haushalter, R. C. 2775
Heard, P. J. 2501, 2907
Heaster, H. 333
Hector, A. 235
Henderson, W. 3099
Henrick, K. 513
Heppert, J. A. 743, 1267
Heras, J. V. 1563, 1575, 2463
Hereygers, M. L. B. F. 1095
Herlinger, A. W. 69
Herstad, O. 1639
Hewitson, G. F. 19
Hia Xin Liu 441
Hiller, W. 273
Hillhouse, G. L. 1741
Hiroe, M. 159
Hirpo, W. 2797
Hitchcock, P. B. 1651
Hnyk, D. 1453
Hoffman, D. M. 1169
Hoggard, P. E. 333
Holah, D. G. 2431
Holloway, J. H. 749
Holwerda, R. A. 737
Hon-Kay Yip 887
Hong-Gen Wang 2179, 3235
Hoong-Kun Fun 2223
Hope, E. G. 749
Hörner, M. 2583
Howells, M. E. 2197

Howlin, B. J. 2197
Hsin-Tien Chiu 2443
Hu Gang 2489
Huaizhu Ma 375
Huang, W. H. 1267
Huang Xiao-Yun 2467
Huang-Liang-Ren 1583
Huanwang Jing 1035
Hubert-Pfalzgraf, L. G. 927, 1181, 2163, 3323
Hudson, M. J. 345, 349
Huffman, J. C. 199, 667, 2933
Hugel, R. P. 591
Hughes, A. N. 2431
Hughes, D. L. 3341
Hui Wanyan 3317
Hurman, B. 23
Hursthouse, M. B. 1, 7, 151, 175, 181, 2501, 2899

Ibrahim, S. K. 3341
Iftikhar, K. 3199
Ikeda, S. 1083, 1625
Ikorskii, V. N. 2781
Imam, S. M. 1907
Imori, T. 2231
Imrie, C. 1677
Insausti, M. 357
Isaacs, N. S. 345, 349
Ishikawa, T. 3071
Ishizu, K. 1715
Iskander, M. F. 517, 2569, 3015
Itoh, H. 1539, 2473
Iwai, K. 1523
Izod, K. J. 151

Jagner, S. 539
Jáky, M. 445
Janik, J. F. 1225
Jarrett, P. S. 3143
Jeffery, J. C. 353, 2291
Jena, S. 559, 2945
Jenkins, H. D. B. 1481
Jeyasubramanian, K. 2825
Jezowska-Bojczuk, M. 2683
Ji-Quan Wang 3235
Jia Handong 57
Jia-Xi Lu 1841
Jian Chen 873
Jian Lu 807
Jian-Chuan Zheng 1039
Jiang Zonghui 1801
Jianggao Mao 313, 319, 2193
Jianqi Wang 1405
Jianqiu Shi 1661
Jiaxi Lu 125, 841
Jiazuan Ni 313, 2193
Jie Chen 1091
Jie Dai 2495
Jiling Huang 1105
Jimenez Sandoval, O. 2809
Jin Daosen 2089, 2095
Jin-Yu Shen 3235
Jing Ling Wang 2543
Jing-Chie Lin 3031
Jing-Tang Chen 1701
Jing-Xing Gao 2751
Jingfu Liu 1057
Jingtang Chen 1881
Jingwen Guan 1695, 2979
Jinsong Ren 2979
Jinwoo Cheon 63
Jitsukawa, K. 1523, 2343
Jiutong Chen 379
Jones, C. J. 2107, 2117, 2615
Jones, L. A. 2401
Jones, L. J. 625, 199
Jones, P. G. 1077
Jones, R. A. 1149
Jones, R. J. 2107
Jovanović, L. S. 3005
Joyce, H. 513
Ju Chang Kim 567
Jun Li 1841
Jun Ho Shin 1489
Jun-Xiu Dong 2763
Juzheng Liu 1927, 2867
Jyh-Horung Chen 403, 2887, 3031, 3091

Kagwanja, S. M. 2615
Kai Bei Yu 783, 851, 873
Kai Tang 2055

Kai-Bei Yu 389
Kaiser, V. 579
Kaiwar, S. P. 1895
Kaluo Tang 2439, 3023
Kamenar, B. 2271
Kamnev, A. A. 2447
Kampf, J. 1379
Kanatzidis, M. G. 2797
Kandori, K. 3071
Karagiannidis, P. 753, 3119
Kasowski, W. J. 1989, 1997
Kastner, M. E. 2055
Kasuga, K. 159
Katiyar, S. 777
Kauffman, G. B. 1961, 2049, 2591
Kawaguchi, H. 1963
Keller, N. 1725
Kelly, J. D. 1937
Kelly, P. F. 1501
Kendall, N. L. 1507, 1517, 2629
Kendrick, D. ap. 39
Kennard, C. H. L. 2425, 3135
Kessissoglou, D. P. 1379
Kessler, M. 2455
Kezhi Wang 987
Khalil, M. M. 3295
Khalil, T. E. 2569
Khan, A. A. 3063, 3199
Khan I. 847
Kher, S. S. 2731
Ki Sung Kim 567
Ki-Young Choi 567
Kimoon Kim 1887
Kimura, E. 325
King, R. B. 2005
Kirk, C. 2055
Kirschbaum, K. 1415
Kita, M. 1609
Kitamura, Y. 2477, 2483
Kivekäs, R. 203
Klabunde, K. J. 1197
Klimov, O. V. 505
Klinga, M. 1099
Knowles, T. S. 2197
Kochubey, D. I. 505
Kodera, M. 933
Kojic-Prodic, B. 3119
Kojima, A. 3039
Kokozay, V. N. 15, 1427, 1431, 1439
Kolb, U. 365
Kolel-Veetil, M. K. 919
Kolinsky, P. V. 2107
Kolodsick, K. J. 457
Könemann, M. 1415
Kosturkiewicz, Z. 753
Kovács, Z. 2599
Kovala-Demertzi, D. 1917
Kozlowski, H. 2683
Krannich, L. K. 3299
Kremer, E. 1859
Kresinski, R. A. 1705
Krishnamurthy, S. S. 2993
Krishnan, G. 983
Krug, A. 2893
Kubica, Z. 2683
Kufelnicki, A. 1027
Kumar Das, P. 2665
Kumar Ghosh, B. 2665
Kumar Pal, C. 999
Kumbhar, A. 395
Kung-Kai Cheung 2563
Kura, G. 3105
Kurosu, H. 3039
Kwan Mook Kim 1397
Kwok-Keung Lai 2751
Kwok-Yin Wong 771, 2563

Labadi, I. 2767
Labadié, G. 909
Labib, L. 517, 2569, 3015
Labisbal, E. 1735
Labrize, F. 2163, 3323
Lagrange, J. 861
Lagrange, Ph. 861
Laidlaw, W. M. 1875, 2337
Lakshmikantham, M. V. 675
Lan Yan 3317
Lance, M. 1725
Laouenan, A. 3341
Laske, J. A. 2737

Lauterbach, A. 2043
Lavery, A. J. 2915
Lavrenova, L. G. 2929
Lázár, I. 2599
Lázár, J. 855
Leban, I. 3171
Lee, Z. C. 2259
Lehtonen, A. 2519
Leipoldt, J. G. 599, 717, 1051
Lenstra, A. T. H. 1095
Leonesi, D. 1553
Leovac, V. M. 3005
Leśniewska, B. 1027
Levason, W. 881
Li Bei Jian 57
Li, J. J. 1315
Li, T. 463
Li-Cheng Song 2179, 3235
Lian-Pin Hwang 403
Lianbin Xu 3167
Liang Yongmin 2395
Liang-Nian Ji 2185
Liangbing Gan 3167
Liangren Huang 125
Lianza, F. 3209
Liao Daizheng 1801
Lim, K. H. 2379
Lim, Y. Y. 2379, 2861
Lin Huakuan 759
Lingjie He 125
Lis, T. 655
Lisheng Mao 1023
Liu Guofa 2255
Liu Jinxia 2095
Liu Xiaoxun 2255
Liu Yu 313
Lobo, M. A. 1563, 1575
Long, D. P. 2055
Look-Herber, P. 1077
Lot, E. F. 27
Lu Jingfu 2421
Luic, M. 3119
Luks, E. 899
Luo Qin-Hui 1583, 2467
Luque, A. 2311, 2819
Lux, D. 2367
Luz, S. M. 3177

Ma Yongxiang 2101, 2395
MacInnes, A. N. 1315
Maddock, K. 835, 3153
Madic, C. 345, 349
Maginn, S. J. 1683
Magnuson, V. R. 2431
Maher, J. P. 2615
Maichle-Mössmer, C. 435
Maiya, B. G. 1863
Mak, T. C. W. 771, 1087, 2079, 2157, 3329, 3333
Małecki, J. G. 241
Mallick, T. K. 1817
Maloney, D. J. 815
Man-Chung Tse 2751
Man-Sang Tse 2751
Marchetti, F. 939, 2173
Marciante, C. 939
Markewich, R. T. 2431
Marriott, J. A. 1937
Marrot, F. 1931
Martin de Vidales, J. L. 3269
Martin, R. L. 1969
Martinez de Ilarduya, J. M. 3257
Martínez, V. 965
Martinez-Ripoll, M. 2745
Mártire, D. O. 1411
Mason, S. S. 3059
Massoud, S. S. 517, 1467, 3127
Masuda, H. 1523, 2343
Mathew, V. J. 799
Mathey, F. 2555
Mathur, P. 1005, 3111, 3219
Matonic, J. H. 815
Matovic, Z. 993
Matsui, M. 3167
Matsumoto, N. 933
Matthews, R. W. 513, 847
Maughan, M. M. J. 553
Maurya, R. C. 2653
Mautner, F. A. 2141, 2149
Mazid, M. A. 175
McAuliffe, C. A. 1735
McCann, M. 221, 835, 2359, 3153

McCleverty, J. A. 353, 2107, 2117, 2615
McEwen, A. B. 1937
McGowan, P. C. 2971
McGregor, K. 1277
McGufey, A. R. 2831
McPartlin, M. 513, 847, 2265
McPhail, A. T. 199, 625, 2737
McVitie, A. 193
Meese-Marktscheffel, J. A. 1045
Mehdi, R. T. 2855
Mei-Cheng Shao 1587
Menéndez, N. 1835, 3309
Menzel, F. 579
Mercier, F. 2555
Micera, G. 1763
Mieczyńska, E. 655
Mihara, T. 1747
Mikuriya, M. 2495
Milgrom, L. R. 209
Milne, P. E. Y. 187
Ming-Torng Sheu 3091
Mingzhe Ke 1277, 2301
Mirtcheva, E. 3269
Mishra, D. D. 2653
Misra, A. 2025
Mitchell, I. S. 2129
Mitsumi, M. 933
Mochida, K. 915, 3039
Modec, B. 3171
Modro, T. A. 1677
Mohamadou, A. 1363, 3277
Mohammed, M. A. 2471
Mohanty, R. R. 559, 2945
Mok, K. F. 3253
Monge, A. 2277
Monge, M. A. 1563
Mongeot, H. 2211
Moo Jin Jun 63, 1397, 1887
Moore, B. C. 209
Moreira, I. S. 1015
Moreno, J. M. 203
Mori, W. 891
Moriguchi, T. 159
Morise, X. 2971
Mortimer, M. D. 353
Morton, M. D. 1267
Mostafa, M. 3295
Mostert, D. 1051
Moszner, M. 1351
Motevalli, M. 1, 7, 151
Motoda, K.-I. 933
Moubaraki, B. 485
Mrozinski, J. 2767, 3209
Mukhopadhyay, S. 53
Muldoon, D. J. 2915
Mullins, A. P. 1631
Munakata, M. 2495
Murillo, C. A. 815
Murphy, B. P. 847
Murray, H. H. III 1705
Murray, K. S. 485
Myrczek, J. 165

Naal, Z. 133
Nag, K. 2639
Nageswara Rao, N. 2653
Nanba, M. 915
Nanda, K. K. 2049, 2639
Narang, K. K. 529
Narinesingh, D. 45
Navaza, A. 1725
Nazarenko, A. Y. 2549
Neild, J. 2923
Nelson, B. A. 2431
Nethaji, M. 2993
Nianyong Zhu 301
Nichols, P. J. 485
Nicholson, B. K. 3099
Nierlich, M. 1725
Nishida, Y. 1539, 2205, 2245, 2251, 2473
Nolan, K. B. 1495
Noltemeyer, M. 547
Nonoyama, M. 891, 1609
Nonoyama, K. 891
Noor Shahina Begum 307
Norkus, E. 3041
Norman, N. C. 1655, 2525
Nuñez, L. 1619
Nyokong, T. 2067

Ochaya, V. O. 2043
Ohba, M. 933
Ok-Sang Jung 1397
Okawa, H. 933
Okazaki, M. 2245
Okechukwu, R. C. 2223
Oliva, G. 689
Olive, M. A. L. 2647
Oliver, A. G. 3099
Omberg, K. M. 339
Orpen, A. G. 2291
Orrell, K. G. 675, 2501, 2907
Ostrander, R. L. 3053
Ovcharenko, V. I. 2781
Ozawa, T. 1523, 1715, 2343, 2477
Oadhye, S. 395

Paine, R. T. 1225
Pak-Hing Leung 3253
Panchanatheswaran, K. 903
Pandey, H. N. 3111
Pandey, J. P. 529
Panfil, A. 2513
Panizo, M. 1669, 1835, 3309
Papastephanou, S. 2285
Parkanyi, L. 2767
Parker, O. J. 267
Parkin, G. 1489
Parkin, I. P. 235
Parr, J. 3261
Parsons, S. A. 23
Pascal, J.-L. 1787
Patev, N. 469
Patroniak, V. 2125
Paul, I. 2639
Peacock, R. D. 193
Pearse, G. A. 553
Pecoraro, V. L. 1379
Pei Ju Zheng 873
Peihua Yu 125
Peng Jiuhe 1801
Peng Jun 2421
Perfilyev, Y. D. 2447
Perlepes, S. P. 1593, 1095, 3209
Perpiñán, M. F. 2277
Peters, J. A. 1825
Peters, J. C. 1741
Petrov, K. 3269
Pettinari, C. 939, 1553
Pickett, C. J. 3341
Pickett, N. L. 2525
Pillai, M. R. A. 701
Pinilla, E. 1563, 1575, 2463
Pisarevsky, A. P. 1445, 2459
Pizarro, J. L. 357
Plakatouras, J. C. 1095
Podberezskaya, N. V. 2929
Podlaha, J. 2847
Podlahová, J. 2847
Podoplelov, A. V. 2781
Poeppelmeier, K. R. 1301
Pola, J. 2451
Polyakov, V. R. 15
Ponticelli, G. 993
Popinski, J. 227
Porcu, O. M. 689
Prabhakaran, C. P. 983
Prabhananda, B. S. 469
Preece, S. R. 881
Pritchard, R. 1735
Psillakis, E. 2291
Puddephatt, R. J. 1233
Purcell, W. 717, 1051
Purdy, A. P. 709

Qi Shen 1023, 1695, 2979
Qiangjin Wu 1661
Qimin Liu 2193
Qin-Ying Deng 3085
Qing-Chuan Yang 1951
Qing-Mei Hu 2179, 3235
Qingchuan Yang 1105
Qingri Jin 2333, 2957
Qinhui Luo 1661
Qizhen Shi 1405
Qu Lunyu 2421
Quan-Fu Zhou 389, 851
Queiros, A. 3341
Queiroz, S. L. 689
Querne, G. 3341
Quillet, V. 835, 2359
Quiros, M. 2513

Radecka-Paryzek, W. 899, 2125
Raghavan, M. S. S. 1895
Raithby, P. R. 553
Rajasekharan, M. V. 765
Ramachandraiah, A. 2659
Ramalingam, S. K. 2825
Ramcharitar, N. 45
Ramírez, F. de M. 965
Ramos, M. L. 1825
Rankin, D. W. H. 1453
Rao, C. P. 1895
Rao, C. R. K. 2659
Rao, T. A. 1863
Raptis, R. G. 1705
Raptopoulou, C. P. 1593, 1917
Rawson, J. M. 2793
Ray, R. K. 2591
Reddy, A. N. 2425
Reddy, R. K. 765
Refaat, L. S. 2569
Reger, D. L. 869, 3053, 3059
Reguera, E. 479, 1619
Reid, G. 2129, 2135
Ren Yufang 2489
Rengen Xiong 2763
Renxiang Tan 1661
Rheingold, A. L. 609, 1741, 2715, 3053
Ricard, L. 2555
Rice, D. A. 1631
Richie, K. A. 227
Rico, T. 2277
Rieder, M. 2847
Rivarola, E. 2217
Rivas, C. 2463
Robinson, S. D. 175
Roco, E. 69
Rojas, R. 3269
Rojo, T. 357
Román, P. 2311, 2819
Romanenko, G. V. 2781
Romero, J. 273, 1735
Roodt, A. 599
Rooyen, P. H. van 1677
Rosenhein, L. C. 667
Rosenthal, G. L. 1311
Rotondo, E. 2507
Roundhill, D. M. 2801
Rout, K. C. 559, 2945
Rowley, A. T. 235
Ru-Ji Wang 2179, 3235
Rudong Yang 3317
Ruiz, J. 203
Ruiz-Valero, C. 1669
Ruo Jie Tao 951
Ruo-Hua Zhang 1701
Ruohua Zhang 1881
Ruowen Wu 1
Rusanov, E. B. 2549
Russell, D. R. 2923
Ryba-Romanowski, W. 1069
Rzeszotarska, B. 2683

Sadler, P. J. 1937
Saeed, A. A. H. 2855
Sagatys, D. S. 3135
Sagdeev, R. Z. 2781
Saha, A. 2025
Saha, N. 2025
Sakamoto, M. 1539, 2205, 2251
Sakane, H. 1625
Sakuraba, T. 1091
Sala, L. F. 143, 909
Salas Peregrin, J. M. 909
Salem, I. A. 1547
Salut, S. M. 927
Samotus, A. 1755
Sánchez, A. 1805, 2873
Sanderson, K. D. 181
Sanna, D. 1763
Santini, C. 1553
Santoro, M. 909
Sanz-Aparicio, J. 2745
Sargeson, A. M. 1969
Sarma, K. K. 2217
Sastry, B. A. 993
Schlemper, E. O. 701
Schleyer, P. von Ragué 1453
Schmutzler, R. 1077
Schneider, M. 861
Schrier, P. W. 457
Schröder, M. 2135

Scott, K. J. 1291
Scott, P. 1651
Self, M. F. 199, 625
Selvaraju, R. 903
Senzaki, Y. 1159
Seong Huh 1887
Seong-Su Kim 2061
Shah, S. A. 147
Shahul Hameed, P. 2953
Shakir, M. 791, 1355, 2319, 2953
Shangxi Wang 1661
Shaoren Sun 1057
Shaowu Du 301, 841
Sharma, Y. S. 3111
Sharman, L 1481
Shawcross, A. 2915
Shen Meng-Chang 1583, 2467
Sherlock, D. J. 525
Shi Tongshun 2255
Shi Yaocheng 2101
Shi-Hui Wu 2679
Shi-Ping Yan 99, 475, 1647
Shi-Wei Zhang 1587
Shi-Yan Yang 389, 851
Shibata, A. 2477, 2483
Shie-Ming Peng 771, 887, 2443
Shimoda, M. 3039
Shin-Shin Wang 2887, 3031, 3091
Shionoya, M. 325
Shiow-Huey Chuang 2443
Shiwei Zhang 2333, 2957
Shkuropat, S. A. 505
Shoukry, M. M. 3295
Shourong, Zhu. 759
Shrimal, A. K. 975
Shu-Lin Ma 475, 1647, 2881
Shuangxi Wang 1405
Shue, C. F. 2259
Shugong Zhang 2193
Shukla, R. 2387
Shuyìng Chen 1035
Siang-Guan Teoh 2223, 2537
Siddiqi, K. S. 247
Siddiqi, Z. A. 799, 3063
Siebert, J. W. 69
Sienkiewicz, A. V. 15, 1427, 1431, 1439
Sierra, M. G. 909, 143
Sihai Li 1773
Šik, V. 675, 2907
Sillanpää, R. 2519
Silvestru, C. 547, 2531, 2809, 3159
Simpson, R. H. 2129
Sing, V. 777
Singh, A. K. 777
Singh, V. P. 529
Sinha, C. 999, 2689
Sinha, S. 1817, 2665
Sinn, Ekkehard 635
Sipos, P. 855
Sitran, S. 659
Skopenko, V. V. 15
Slawin, A. M. Z. 261, 3261
Smelka, L. 2683
Smieja, J. A. 3397
Smith, G. 2425, 3135
Smith, G. W. 2197
Smith, S. P. E. 2055
Sogabe, K. 159
Soh-Yun Siah 3253
Sonawane P, 395
Song Qingbao 2101, 2395
Songchun Jin 1695, 2979
Soon-Beng Teo 2223, 2537
Sordo, J. 1805, 2873
Sorensen, C. M. 1197
Sostero, S. 1755
Sousa, A. 273, 1735
Souza, D. H. F. 689
Sovago, I. 2683
Spagna, R. 939
Spyroulias, G. A. 647
Srinivas, B. 2659
Srinivas, P. 1343
Srivastava, A. 975
Srivastava, D. 3299
Srivastava, S. C. 975
Srivastava, T. S. 291
Stalke, D. 539
Startsev, A. N. 505
Starynowicz, P. 109, 113, 1069
Steed, J. W. 167
Steigerwald, M. L. 1245

Steiner, A. 539
Štěpnička, P. 2847
Stergiou, A. C. 2285
Stevenson, J. 1253
Stochel, G. 155
Stone, F. G. A. 1773
Stone, S. G. 1311
Stoppioni, P. 3045
Storr, W. D. 2525
Strähle, J. 273, 435
Straw, T. A. 2605
Streib, W. E. 2933
Struchkov, Yu. T. 1445, 2459
Strukan, N. 2271
Stüer, W. 1415
Su Qiang 2489
Subraminian, R. 993
Sue-Lein Wang 403
Suh-Shing Tang 3031
Sumita Rao, N. 2653
Sun Hong-Sui 1475
Sunchun Jin 1023
Sundberg, M. R. 1099
Sundermeyer, J. 3243
Sung Sil Lee 1397
Suning Wang 1039
Suobo Zhang 1927, 2867
Sutorik, A. C. 2797
Sweet, T. K. N. 2899
Syamala, A. 3079
Sykara, G. 2455
Szklarzewicz, J. 1755

Takahashi, S. 1539, 2205
Takase, H. 3071
Talarmin, J. 3341
Tan, L. L. 2379, 2861
Tanaka, N. 2245
Tanner, P. S. 2417
Tattershall, B. W. 1507, 1517, 2629
Taura, T. 1625
Taylor, M. J. 251
Taylor, R. 2451
Tebello Nyokong, 215
Terron, A. 2513
Terzis, A. 1593, 1917
Tfouni, E. 133
Thambidurai, S. 2825
Themeli, M. 281
Thomas, C. J. 3299
Thompsett, D. 209
Thompson, L. K. 1039
Thomson, S. 485
Thornton, P. 151, 163
Tian-Xian Zeng 2185
Tianbing Xia 3023
Tianzhu Jin 2333, 2957
Tilley, E. E. M. 2291
Tilley, T. D. 2231
Tillotson, M. R. 3229
Ting-Fong Lai 2073
Tocher, D. A. 167
Toma, H. E. 2647
Tomiyasu, H. 1747
Toms, L. 19
Tong Ren 807
Tornero, J. 1835, 3309
Torre, M. H. 1859
Tosik, A. 1689
Traverso, O. 1755
Tripathi, A. K. 1005
Trombe, J.-C. 1931
Troyanov, S. I. 1445, 1459
Trzeciak, A. M. 655
Tsiamis, C. 281, 2285
Tsuchiya, K. 2251
Tsz-Chun Cheung 2073
Tun-Wen Cheng 403
Tung-Sheng Liu 3031

Ueno, T. 3105
Umentani, S. 3167
Upadhaya, A. 345

Vaish, R. 3285
Vaissermann, J. 2163
Valderrama, M. 1101
Vallarino, L. M. 573
Valle, G. 87, 2173
Van der Westhuizen, H. J. 717
Varkey, S. P. 791, 1355, 2319, 2953
Vasapollo, G. 675, 1371

Vaškelis, A. 3041
Vázquez C. 435
Vázquez-López, E. M. 1805, 2873
Venkatasubramanian, K. 903
Verhulst, K. A. F. 1095
Vigner, J. 1725
Vilaplana, R. 1853
Villata, L. S. 1411
Vincent, H. 3323
Virovets, A. V. 2929
Visser, H. G. 1051
Vogt, A. 1027
Vostrikova, K. E. 2781

Wai-Kwok Wong 2751
Wallbridge, M. G. H. 2265
Walther, B. 2893
Walton, R. A. 457
Wan-Sheung Li 2265
Wang Bo 2089, 2095
Wang Genglin 1801
Ward, M. D. 353, 2291
Watanabe, I. 1083, 1539, 1625, 2205
Waters, S. L. 513
Watkins, C. L. 3299
Watson, M. 2455
Webster, M. 881
Wei, H. H. 2259
Wei Xu 2431
Wei-Chung Lo 887
Weichun Chen 1105
Weiqing Wang 1057
Wells, R. L. 199, 625, 2731, 2737
Wen Xia Tang 783, 873, 2543
Wen-Hua Sun 389, 851
Weng-Feng Zeng 2887
Wenqi Chen 1483, 1927, 2867
West, B. O. 485, 1277, 2301
White, P. S. 2731, 2737
Whitmire, K. H. 2387
Wilgocki, M. 1351
Wilkinson, G. 2899
Willett, G. D. 409
Willett, R. D. 267
Williams, D. J. 45, 261, 1683, 3261
Wing-Chi Cheng 2963
Wing-Tak Wong 2751, 3027
Wing-Yiu 2963
Winpenny, R. E. P. 187, 2793
Wódka, D. 1689
Wojtczak, W. A. 1337
Wolf, N. 2801
Wong, C. Y. 261
Woo-Sik Jung 1747
Wood, A. 3243
Woodward, S. 635, 2455
Woollam, S. F. 3243
Woollins, J. D. 261, 1501, 3261
Worrell, J. H. 463
Wu Mingmei 2489
Wu Qiang-Jin 2467
Wu Xiaoli 2101, 2395
Wu Zhijiang 2489

Xian He Bu 325
Xian Jingchun 759
Xianglin Jin 1105, 2439, 3023
Xiangming Li 3317
Xiao Min Zhang 441, 2611
Xiao-Lan Yu 2079
Xiao-Ming Chen 1087, 1393, 2079, 2185, 3085, 3329
Xiao-Yin Huang 2763
Xiao-Ying Huang 1393
Xiao-Ying Li 99, 475
Xiao-Zeng You 1011, 1951, 2157, 2763
Xiaojing Li 3317
Xiaoping Chen 1105
Xiaoqing Wang 2333, 2957
Xiaoying Huang 379
Xiaozeng You 375, 379, 385
Xie Wenjuan 2095
Xigeng Zhou 375, 379
Xin Wang 441, 1011, 1035, 2611
Xintao Wu 301, 841
Xiuli Zhuang 2867
Xu Ya Zhou 951
Xu Xing-You 1583
Xue-Jing Li 2679
Xue-Xiang Xu 1011
Xueqin Shen 385

Yadav, P. R. 919
Yagasaki, A. 1091
Yali Zhan 1881
Yamada, K. 159
Yamazaki, A. 1539, 2205, 2473
Yan Jina 57
Yan Shiping 1801
Yan Ding 869, 3053
Yan-Tuan Li 99, 475
Yang Shiyan 2089, 2095
Yangha Cho 1887
Yanlong Qian 1105
Yao, T. M. 2861
Yao-Jung Chen 403
Yasui, T. 1963
Yasukawa, A. 3071
Yici Gao 1405
Yin Yuan-Qi 1475
Ying Zhu 1405
Yiping Zhang 1291
Yokoi, K. 1083
Yokoyama, Y. 1625
Yong-Ge Wei 1587
Yong-Jia Zhu 1393
Yong-Jin Xu 1393
Yonghua Lin 1695
Yonh-Jin Xu 3085
Yordanov, N. D. 469
Yoshitani, K. 2483
You Xiao-Zeng 1475
You, X. Z. 2861
Youn Soo Sohn 1397
Youqi Tang 2439, 3023
Ystenes, M. 579
Yu Wang 2259, 2563, 2963
Yu-Chul Park 2061
Yu Kai-Bei 1475
Yu Shu-Yan 1583, 2467
Yun Ti Chen 325
Yun-Huin Lin 2887, 3031, 3091
Yuxin Cui 1661

Zacharias, P. S. 2327, 2659
Zafiropoulos, T. F. 1593
Zaidi, S. A. A. 247
Zakrzewski, J. 1689
Zao-Ying Li 771, 2563
Zare, K. 861
Zeng, D. 2715
Zhang Zheng 2467
Zhang Hongyun 57
Zhao Wen Yu 951
Zhen-Lin Xiong 1701
Zheng Xu 375, 379
Zhi-Fu Tao 2179
Zhi-Tao Xu 2079, 3329
Zhibang Duan, 609
Zhong Ning Chen 783, 873, 2543
Zhongsheng Jin 313, 319, 1483
Zhongzhi Wu 375, 379
Zhuang Jin Zhong 1951, 2157
Zijian, Guo 659
Zijie Hou 1025
Zimbron, A. 3159
Ziolkowski, J. J. 655,
Zong-Hiu Jiang 99, 1647
Zong-Biao Ding 2679
Zukerman-Schpector, J. 689
Zuurbier, R. J. 209

Reproduced with the permission of Pergamon Press Inc., by University Microfilms Inc. Duplication or resale without permission is prohibited.